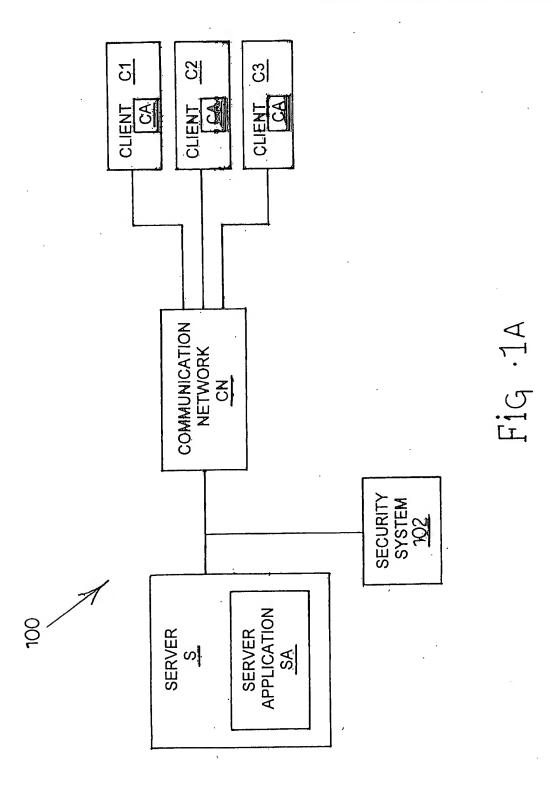
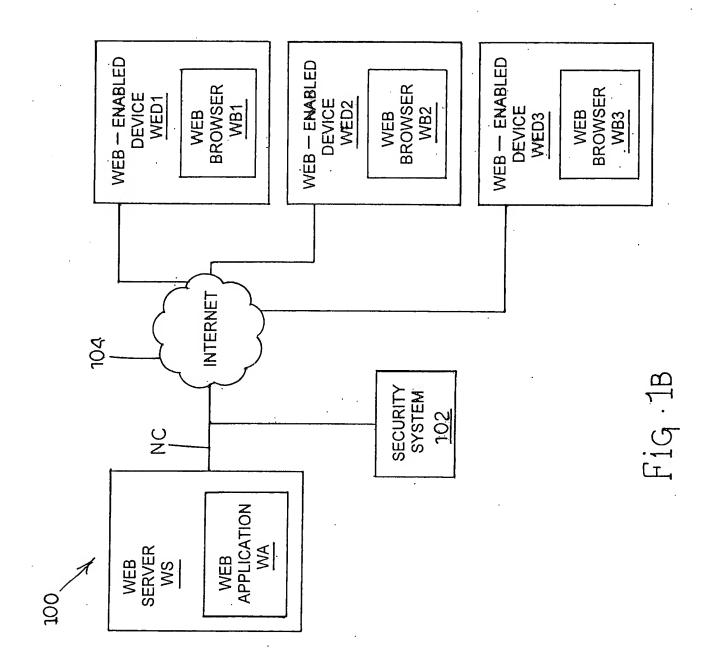
Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9

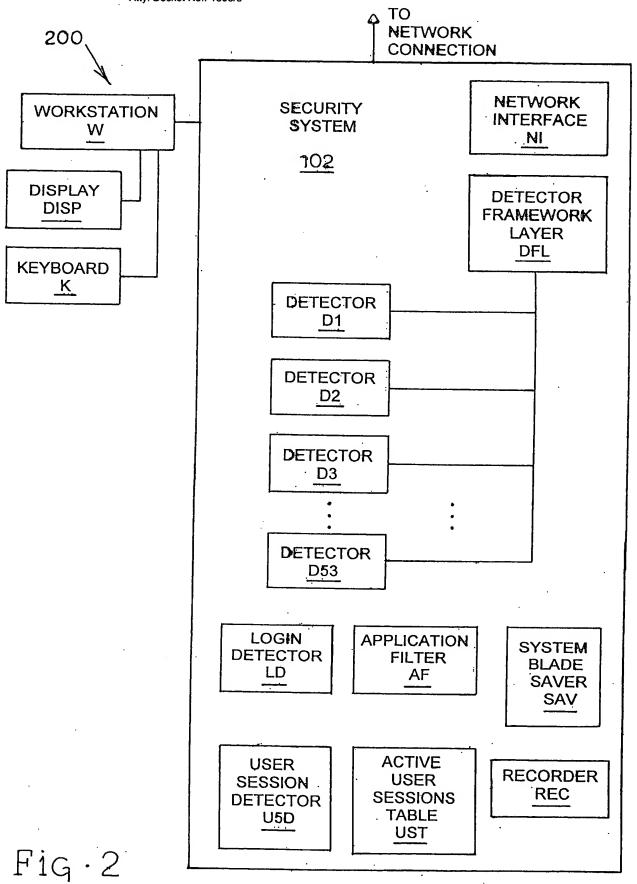
BES! AVAILABLE COPY

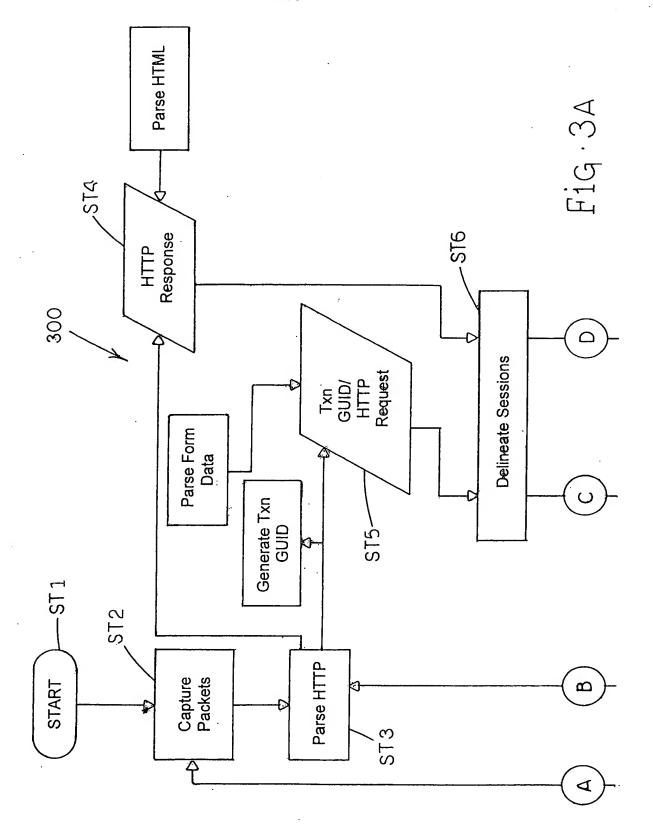
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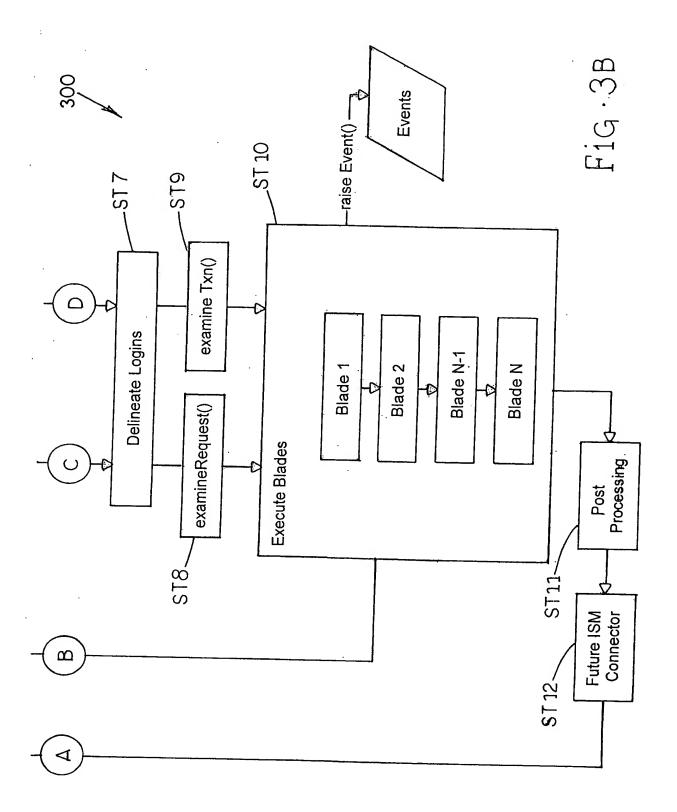












REPLACEMENT SHEET
Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR MONITORING
PROTOCOL RESPONSES FOR A SERVER
APPLICATION
Applicant(s): Motsinger et al.
Atty. Docket No.: 1503/9 Parse Request/ Status Line and Have complete Fessege ? headers Fig.4A -Reading Message ---- Bounds Checking STA ST3 Wait for next Select state packet -ST1 Ω New Connection **ST5** Have complete chunk? Chunked transfer encoding? Ω

REPLACEMENT SHEET
Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR MONITORING
PROTOCOL RESPONSES FOR A SERVER APPLICATION
Applicant(s): Motsinger et al.
Atty. Docket No.: 1503/9 Compute Content Length state=Reading Entity Body Present? Yes **HTTP** Request ST8 Process Message/ Parse Content HTTP Response state=Reading Message Type Message Select \mathfrak{A} 400 ST 10. ST9 \circ · Decode ST 16 ST20 encodings? Additional transfer Ignore content Buffer content Yes type ဥ. 7-9N-ST17 ST 18 Have Complete Entity? Ignore content type? Yes es

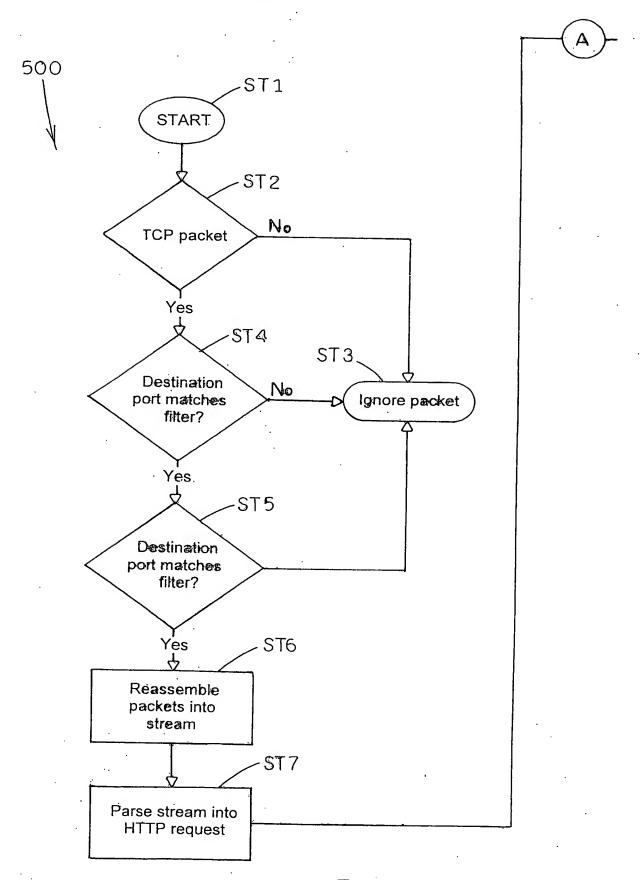
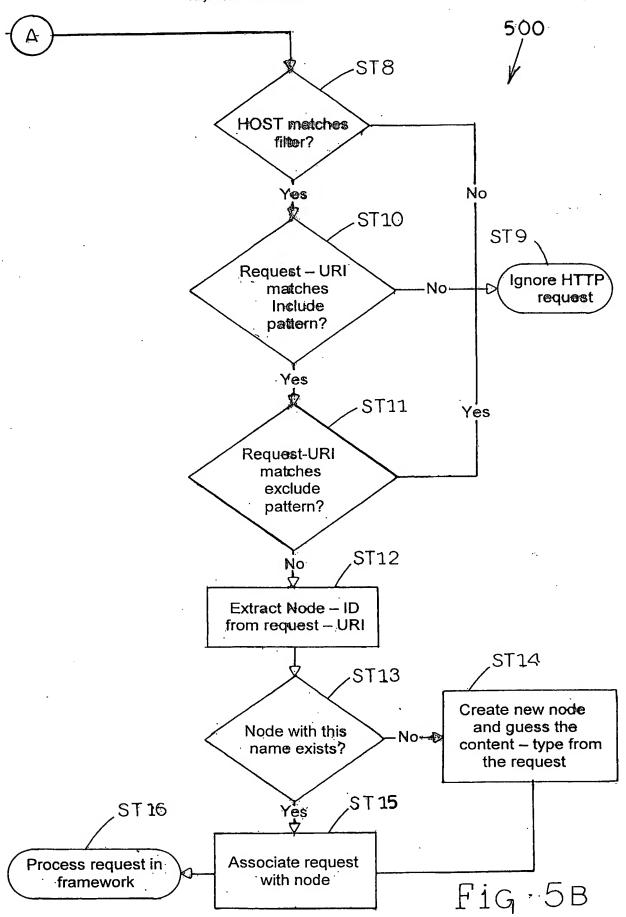
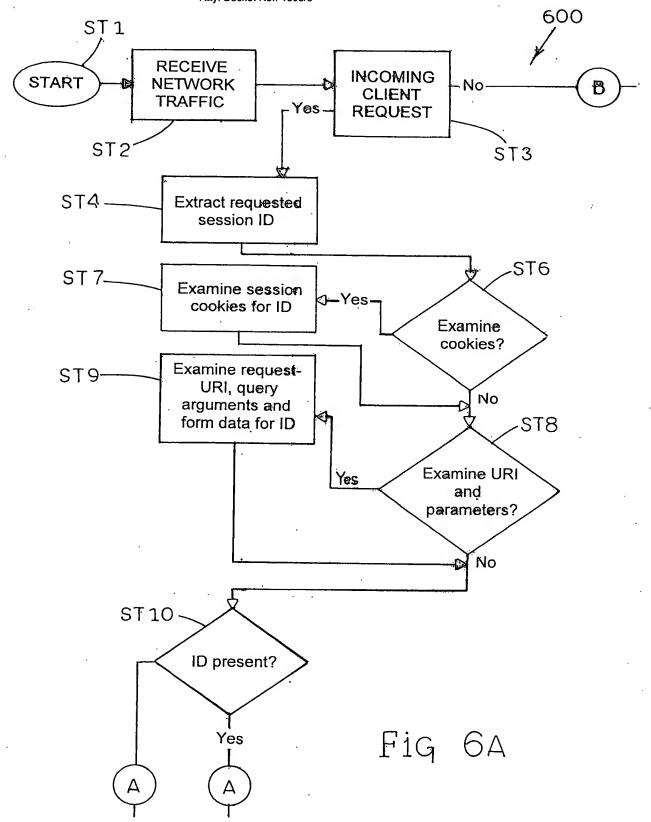


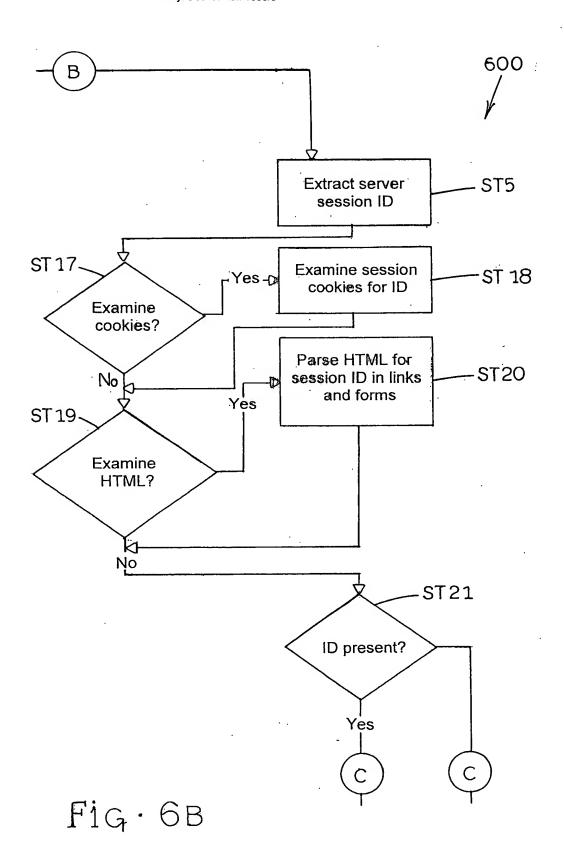
Fig.5A

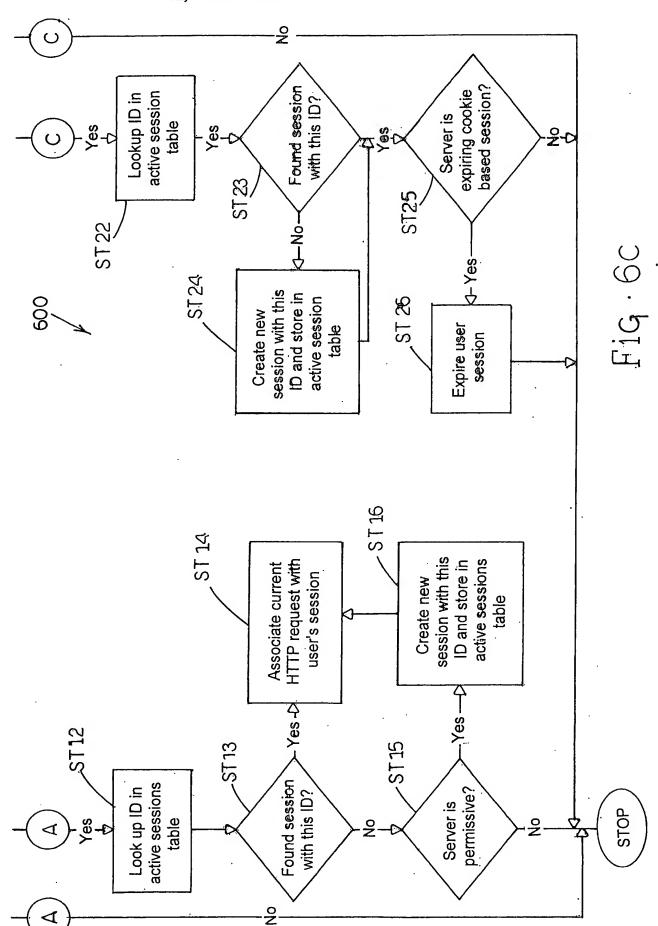


REPLACEMENT SHEET
Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR MONITORING

PROGRAM PRODUCTS FOR MONITURING PROTOCOL RESPONSES FOR A SERVER APPLICATION Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9

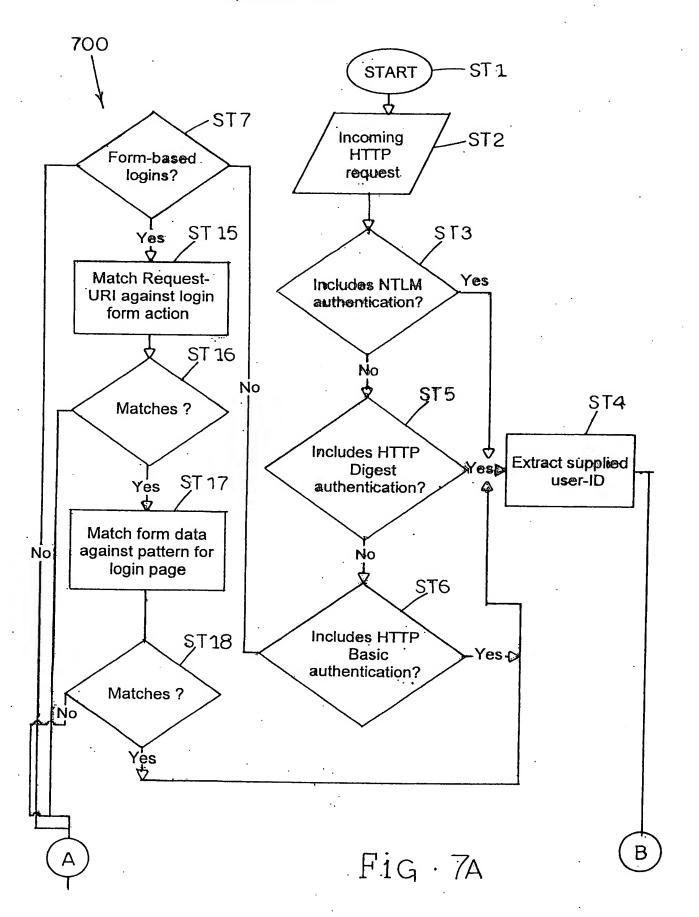


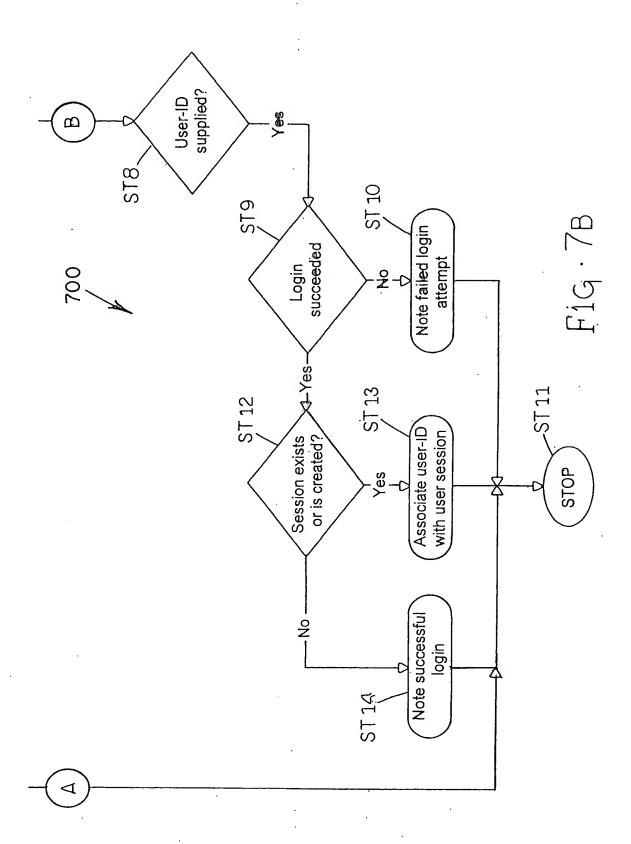




REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION





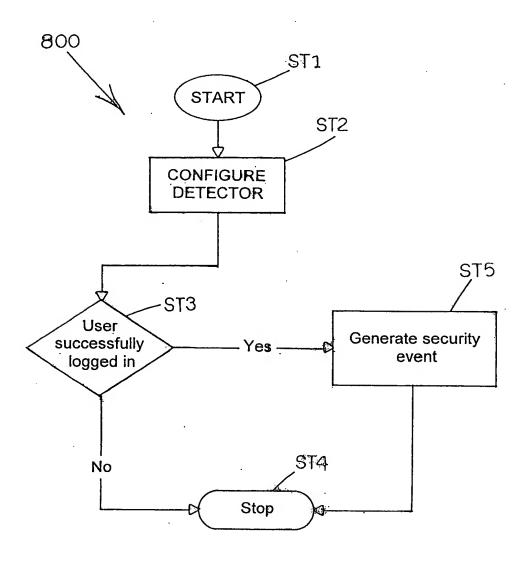


Fig.8

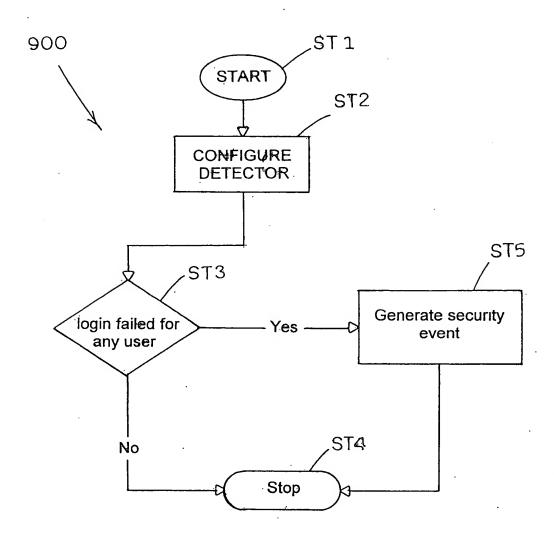
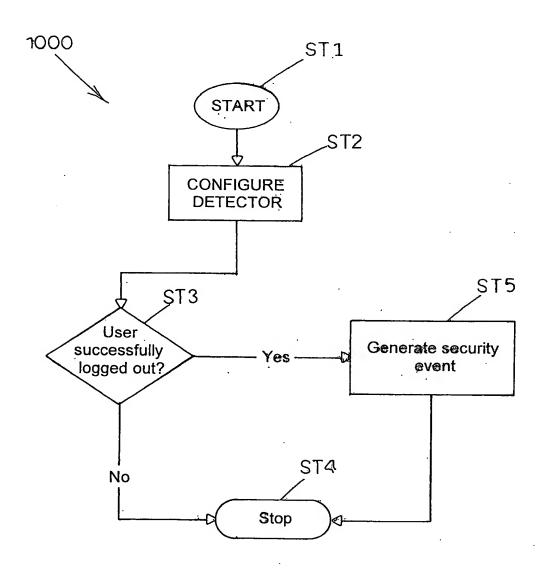
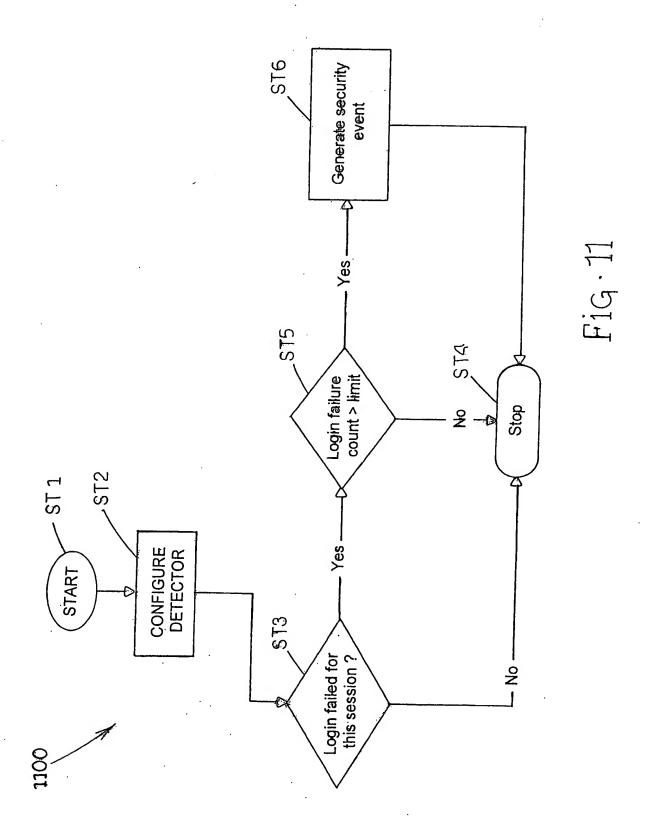


Fig · 9



Fig·10



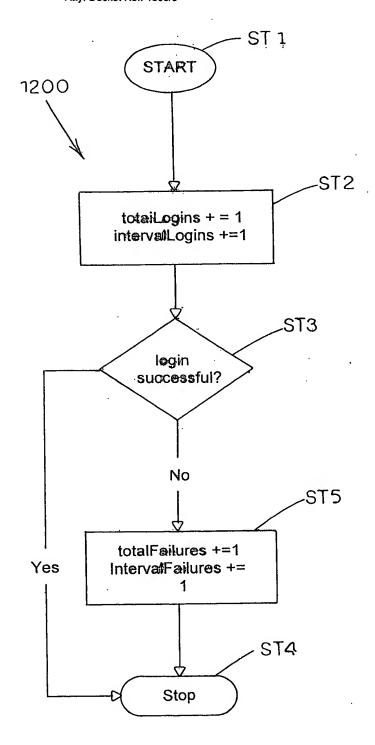


Fig. 12A

REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

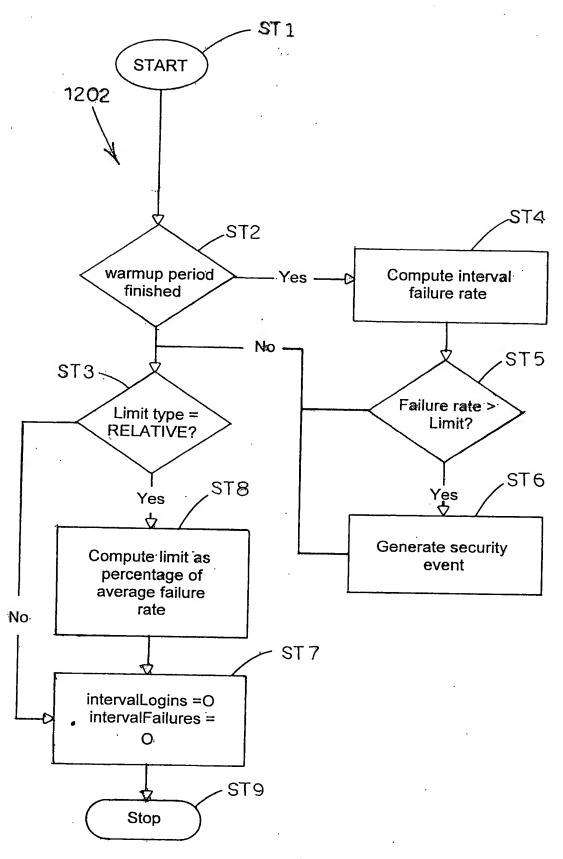
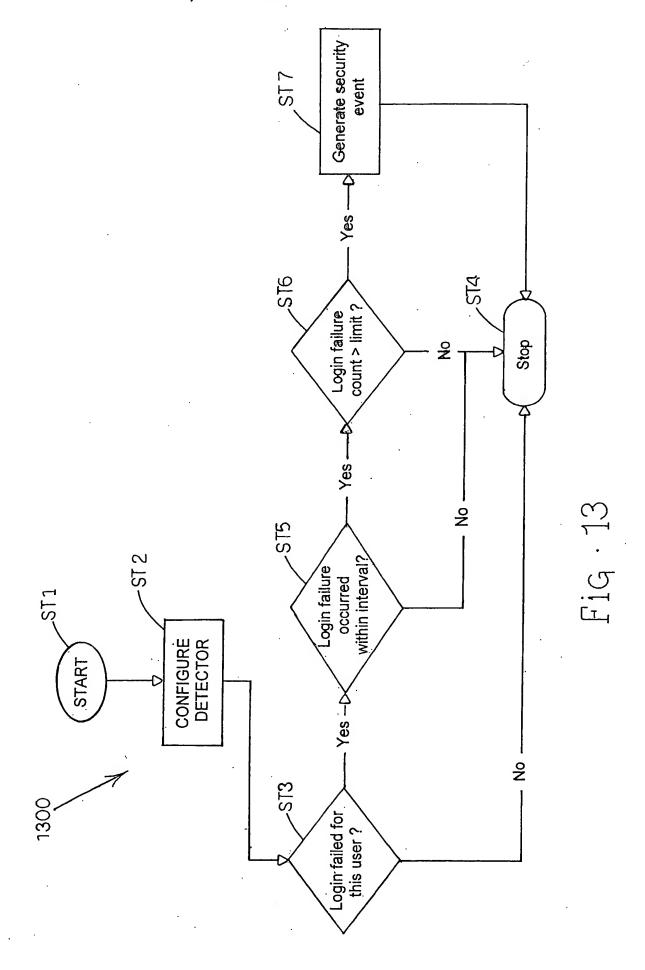
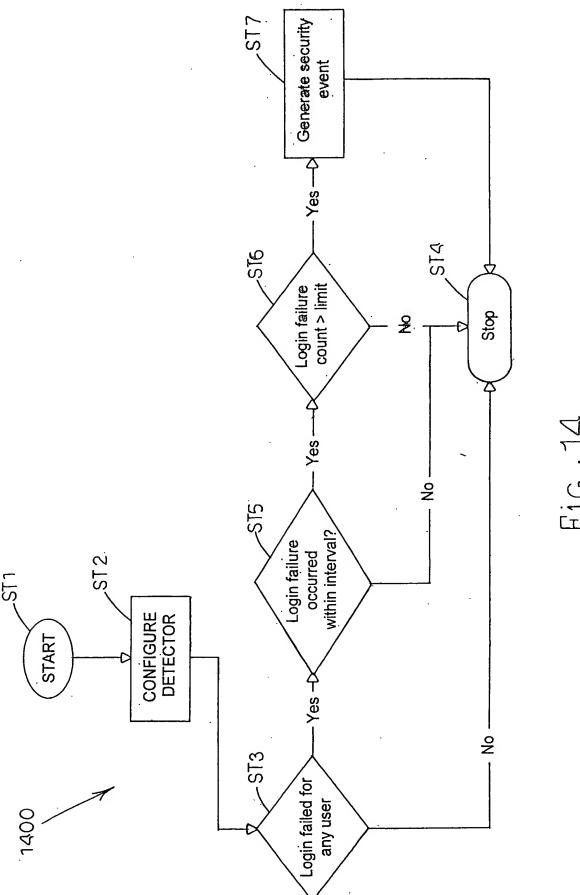
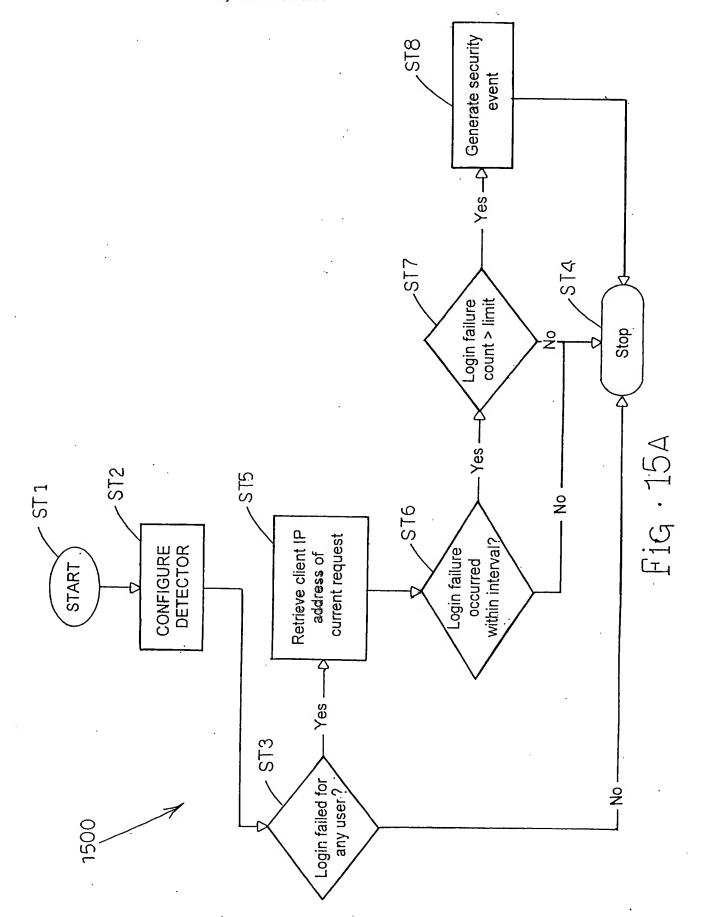


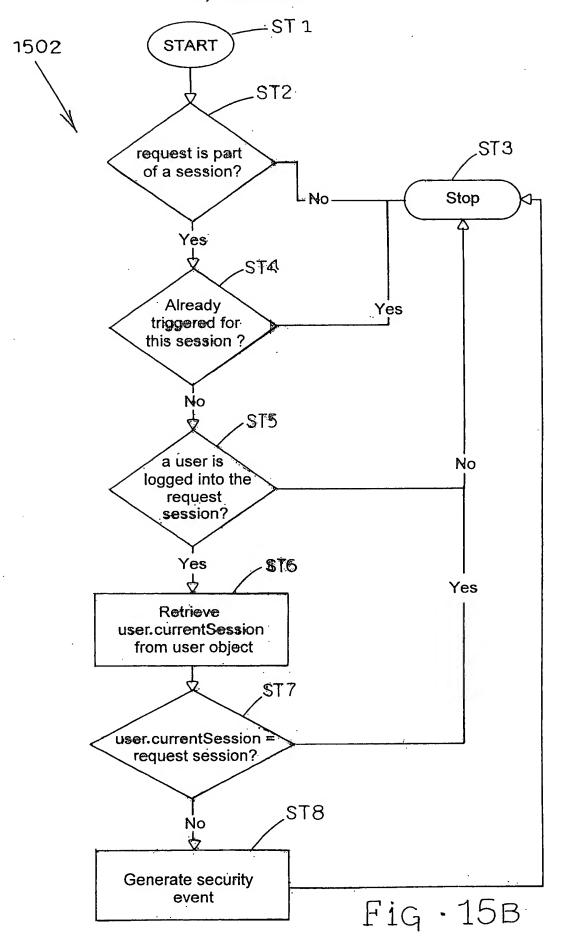
Fig.12B





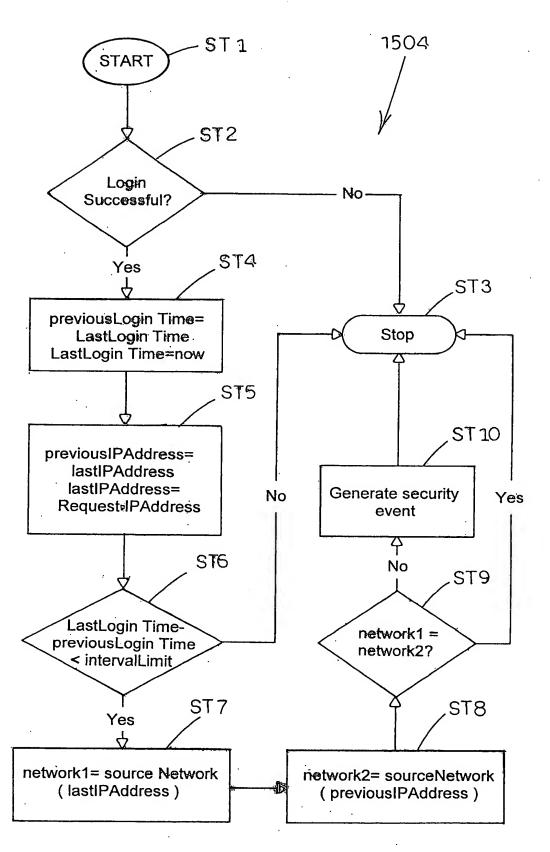
APPLICATION
Applicant(s): Motsinger et al.
Atty. Docket No.: 1503/9





REPLACEMENT SHEET

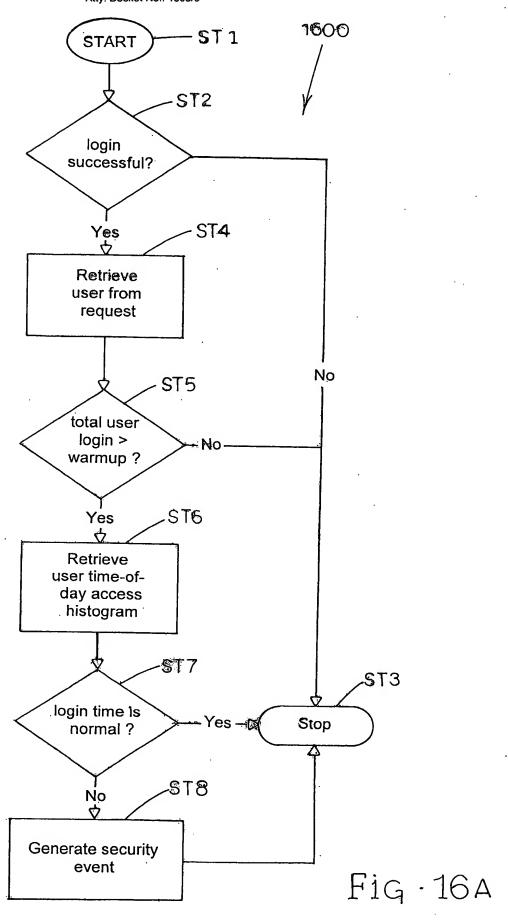
Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION



Fig·15c

REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION



REPLACEMENT SHEET
Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR MONITORING

PROTOCOL RESPONSES FOR A SERVER

APPLICATION

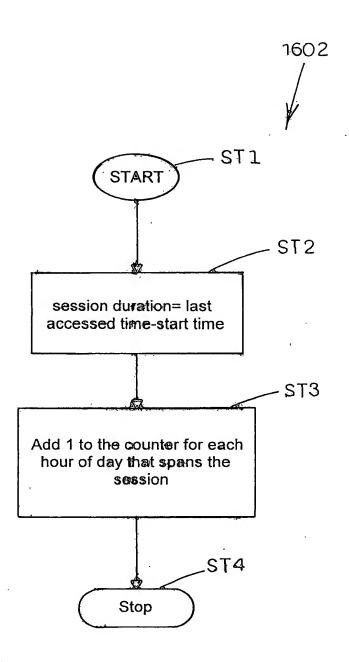
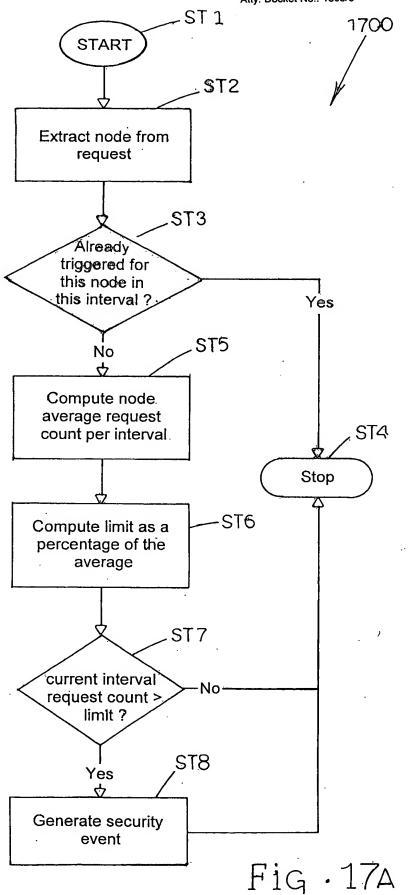


Fig · 16B



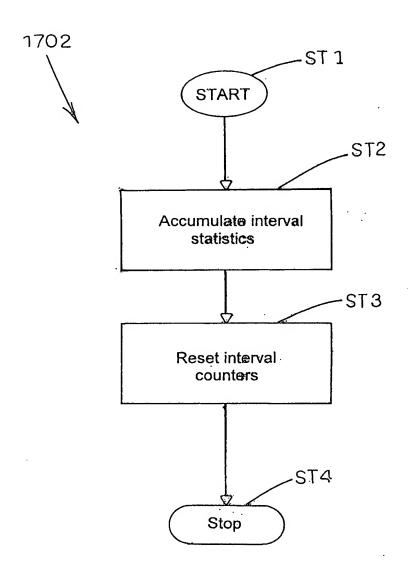
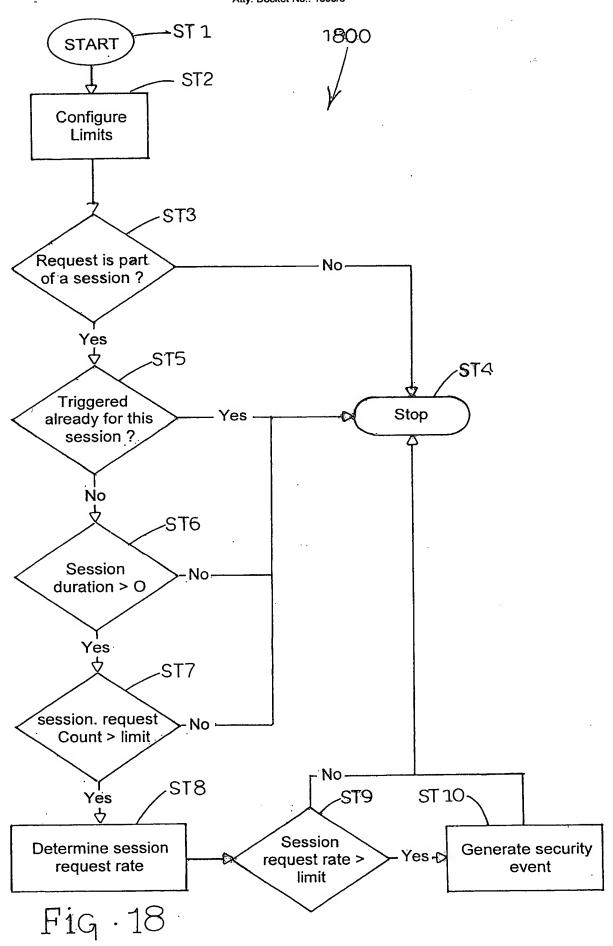
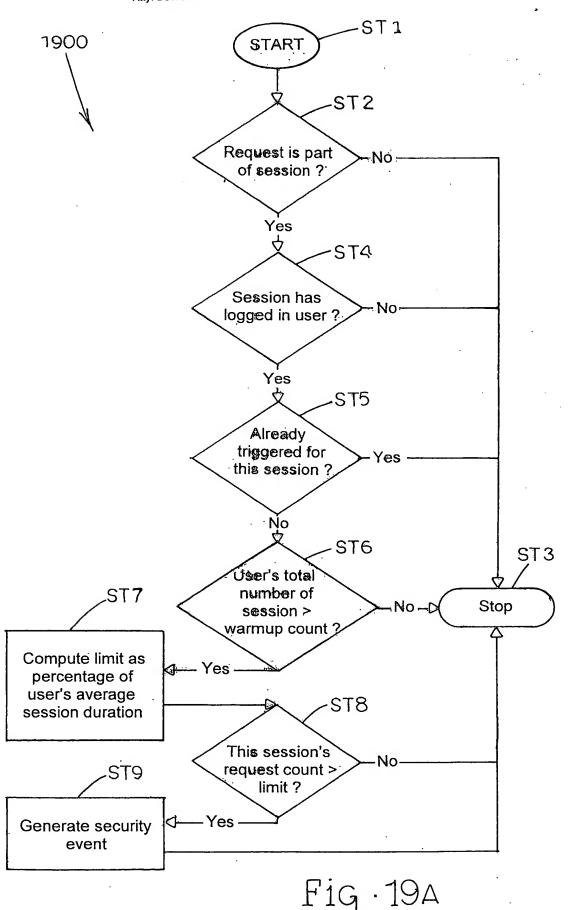


Fig · 17B





1902 ST 1 START ST2 Accumulate[®] session duration ST3 Stop

Fig · 19B

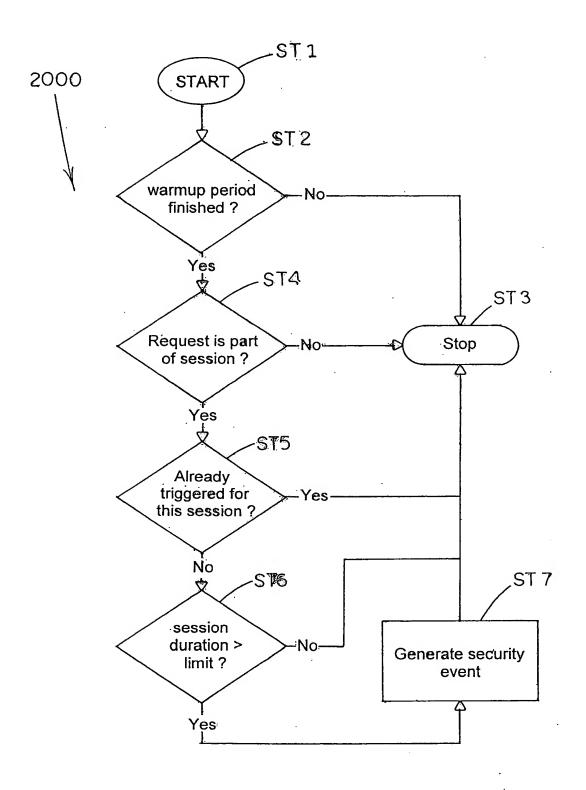
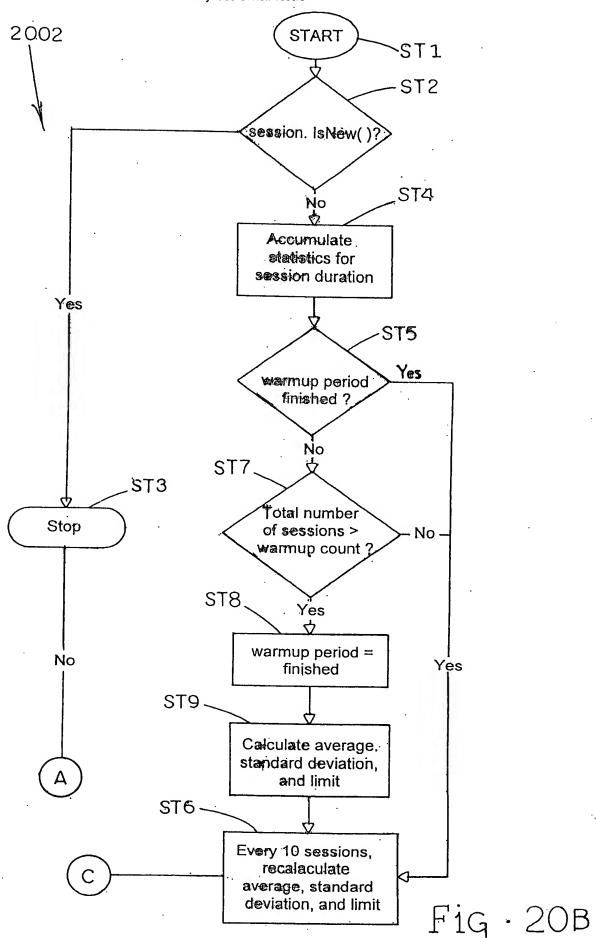
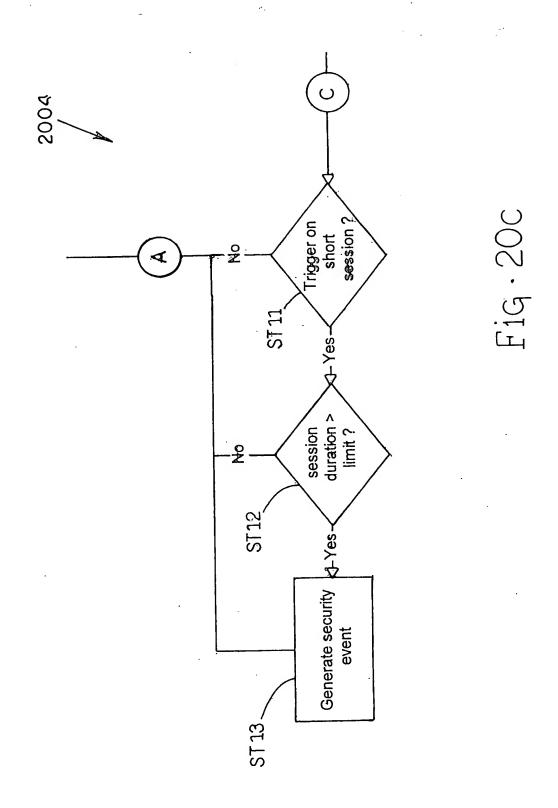
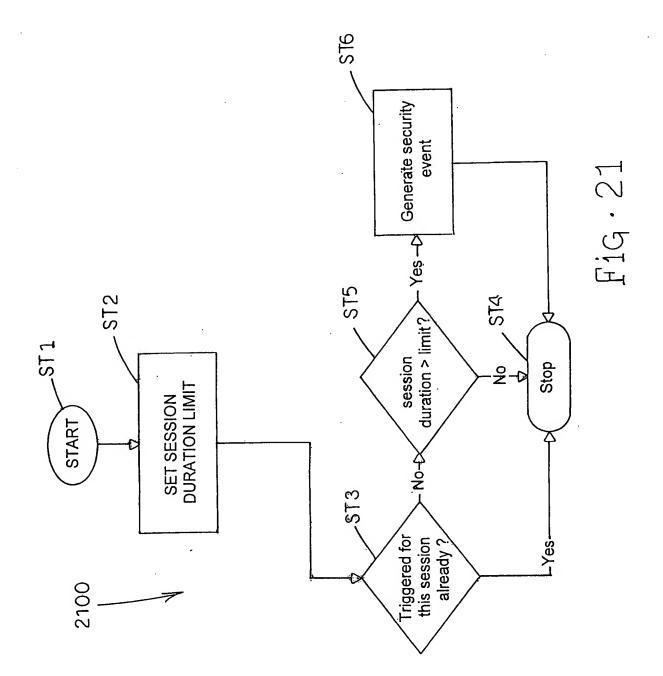


Fig 20A









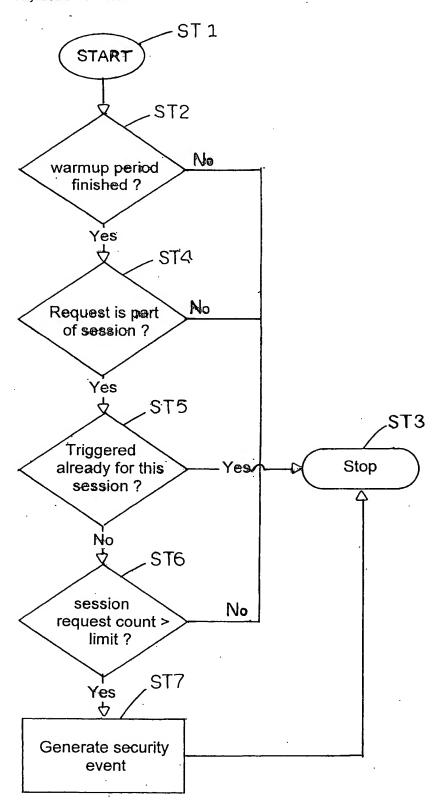
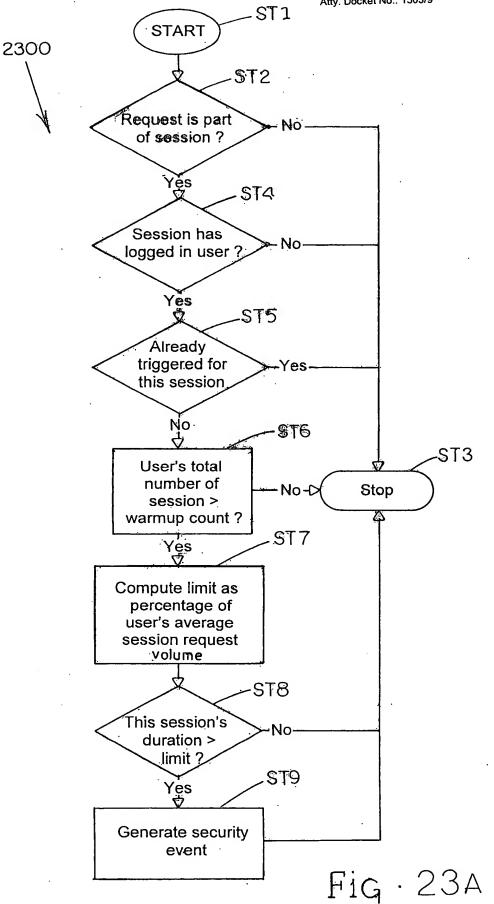


Fig. 22A

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER **APPLICATION** Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9 ST1 START 2202 ST2 session .isNew () == false ST3 Accumulate session request count data ST7 STA ST5 Every 100 sessions, Stop -warmup period = recompute. Yesfinished average, standard deviation, and limit No ST6 Number of sessions > warmup count? ST8 Yes warmup period = finished -ST9 Compute average, standard deviation, and limit Fig · 22B

REPLACEMENT SHEET



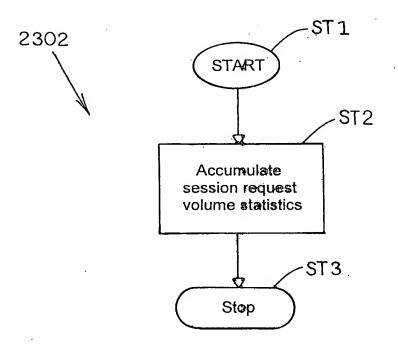
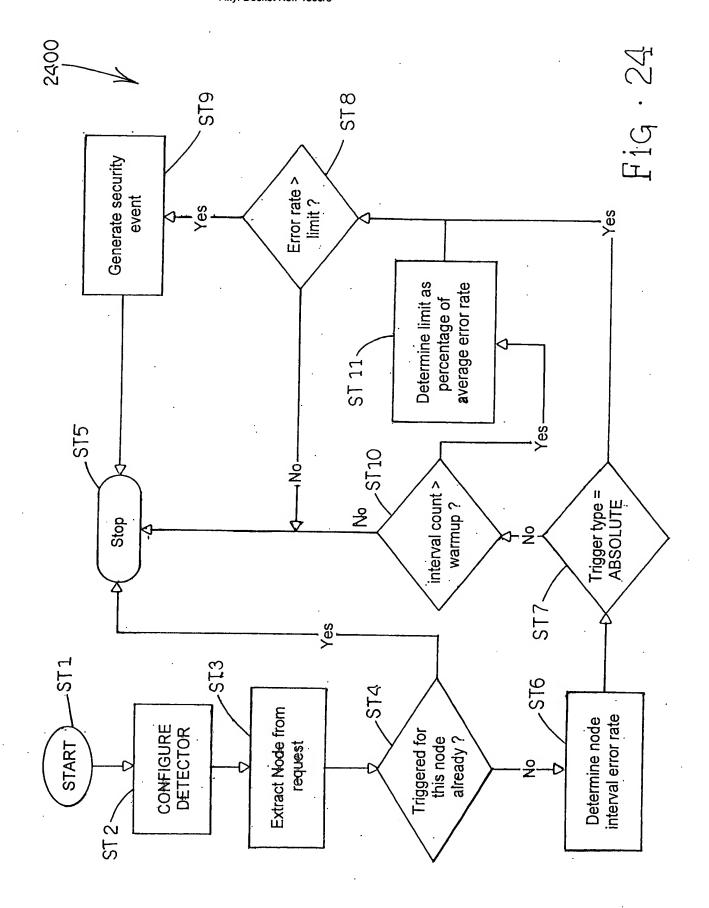
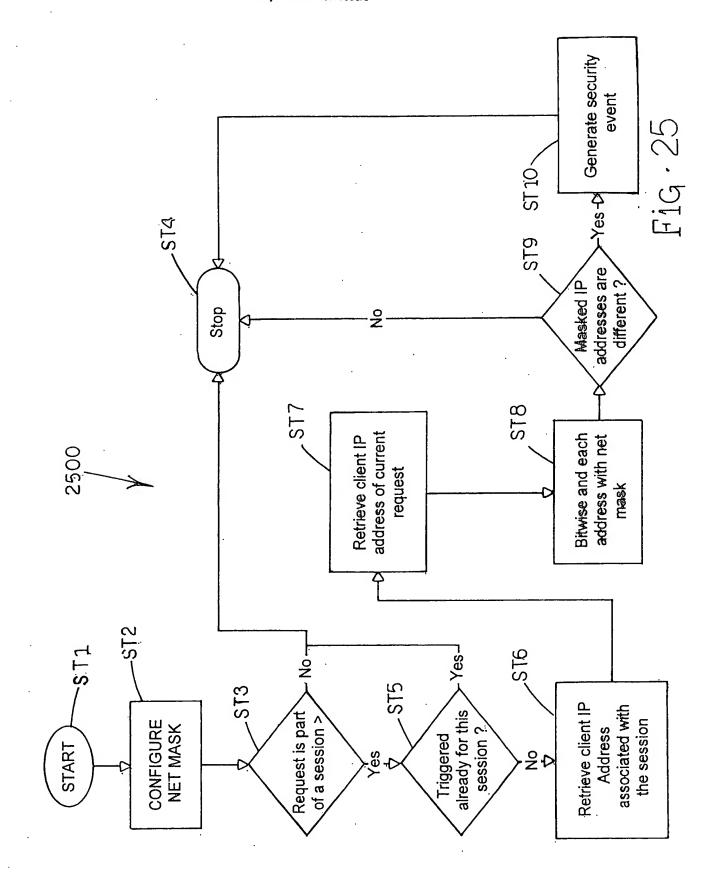
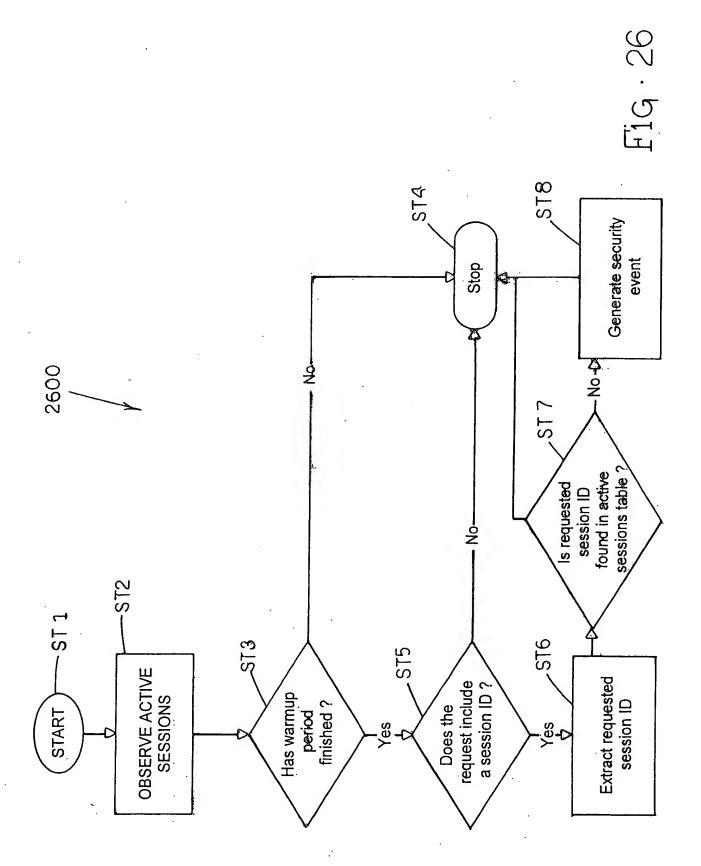
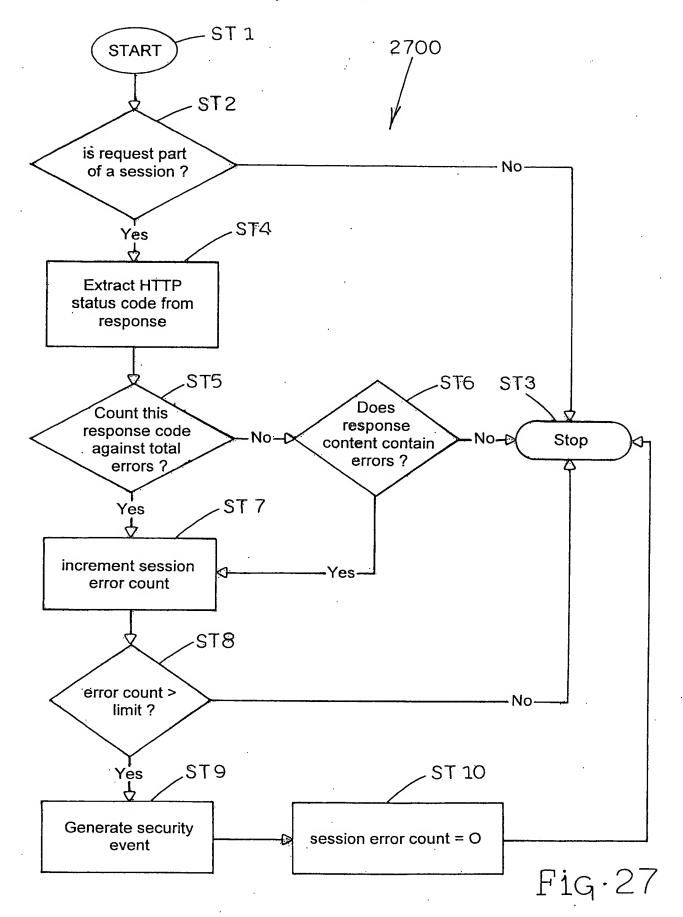


Fig 23B

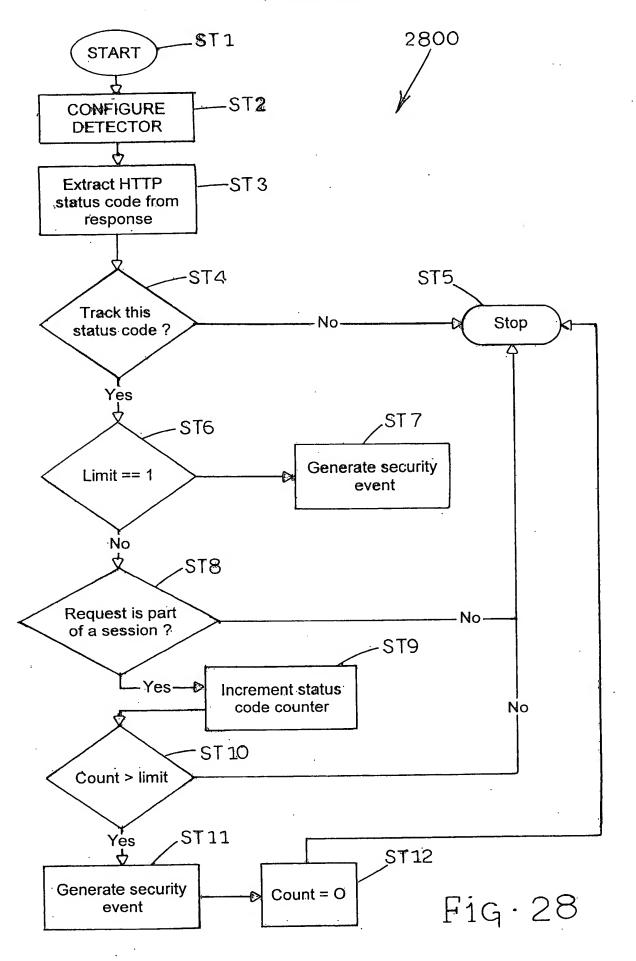


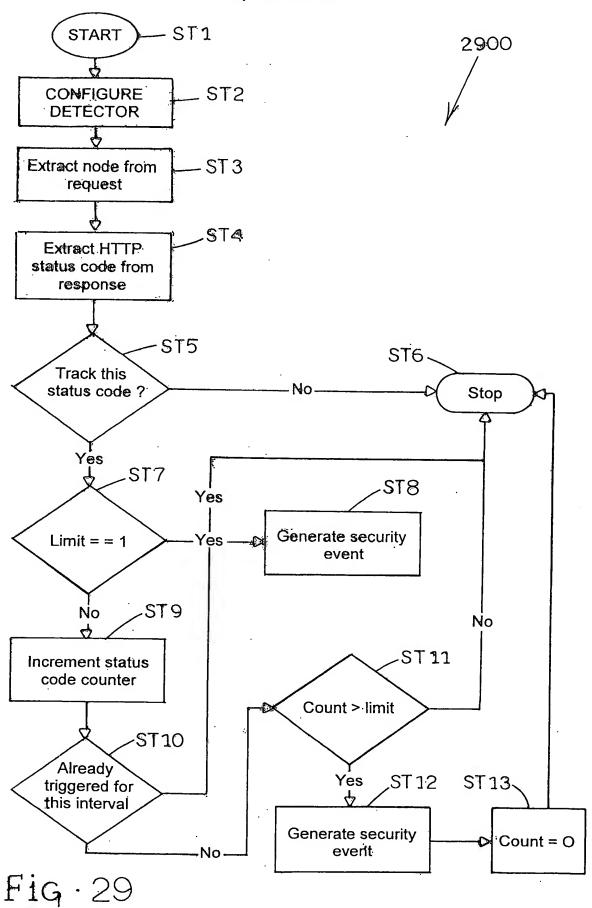


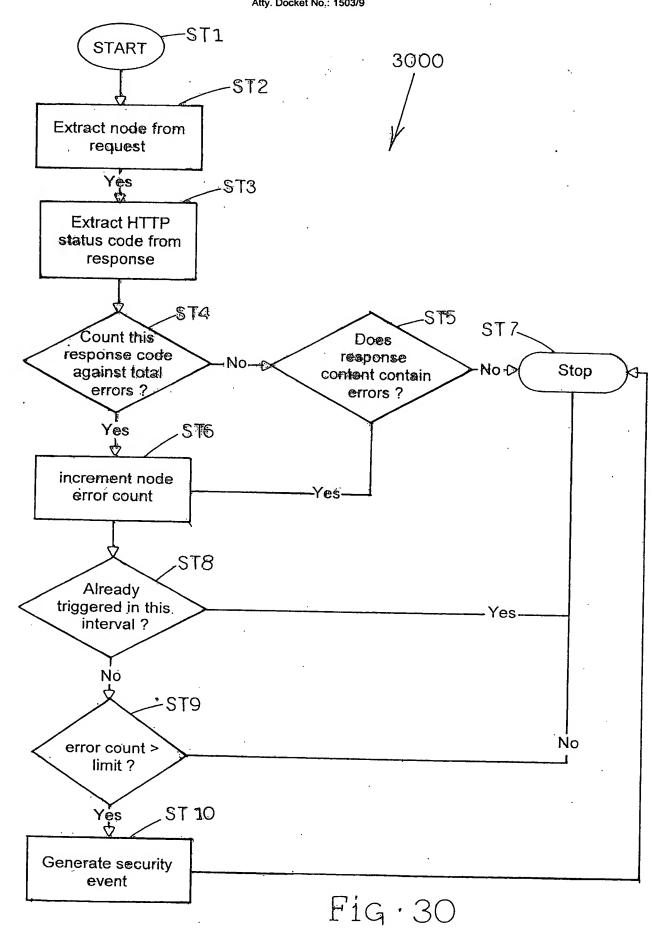




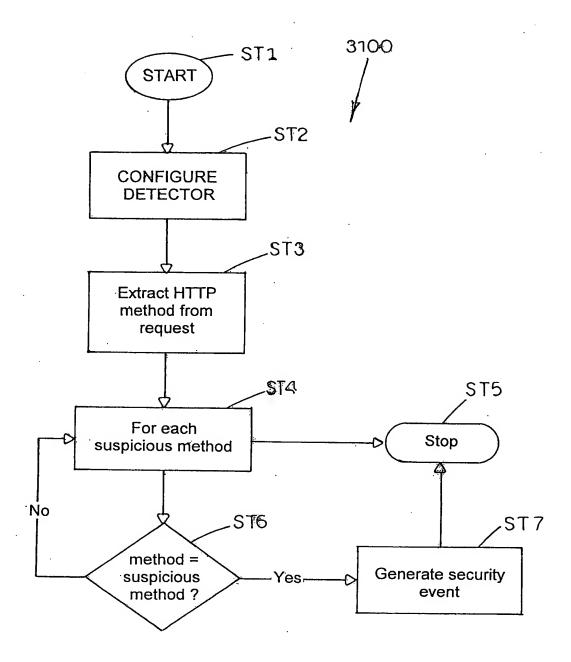
Atty. Docket No.: 1503/9



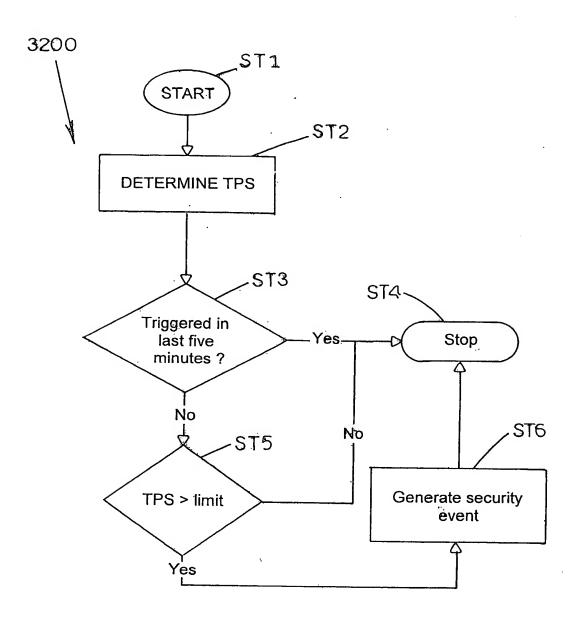




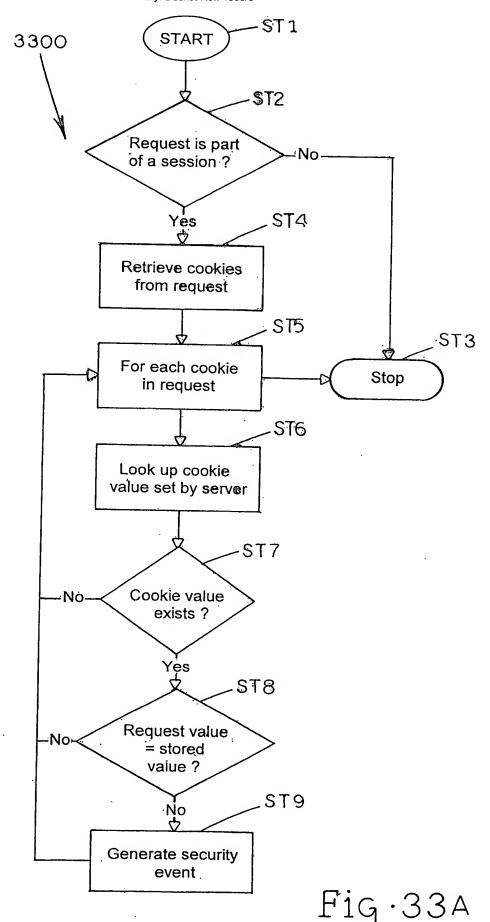
APPLICATION



Fig·31



Fig·32



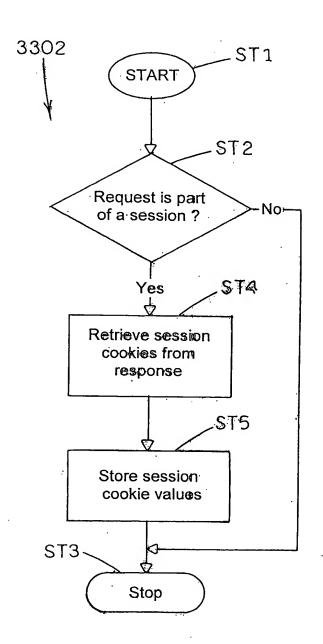


Fig · 33B

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

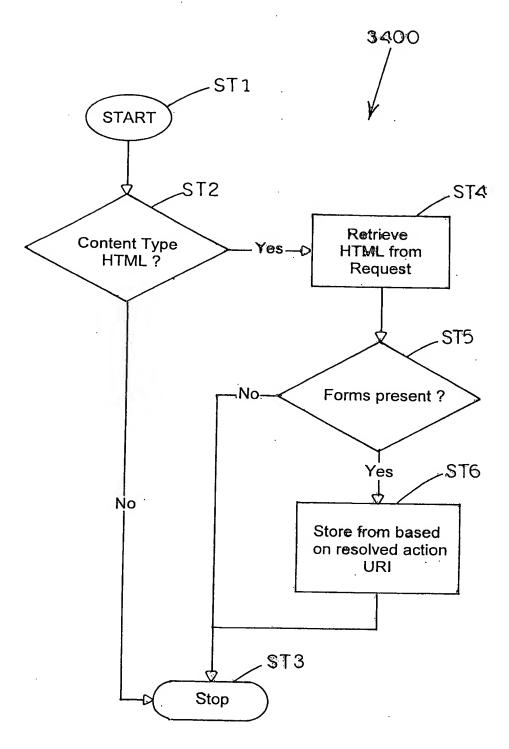


Fig · 34A

Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9 ST1 START 3402 ST2 Determine action form request URI ST5 ST3-Retrieve Form stored form for – Yes for action? action No ST6 Form values match No Yes. ST8 Form structure Nomatches Yes ST7 ST9 Generate security Form contain <-Yesevent suspicious values

No

Stop

ST4

Fig · 34B

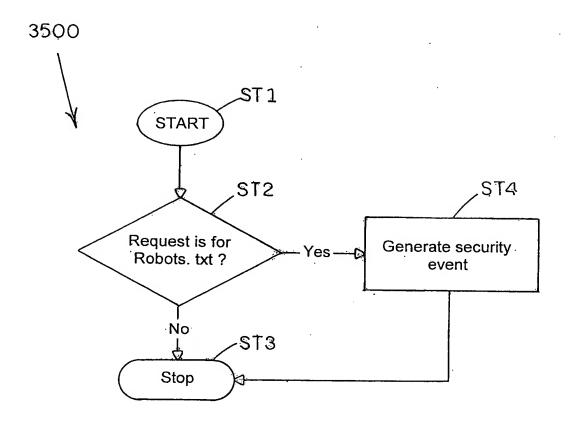


Fig · 35

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

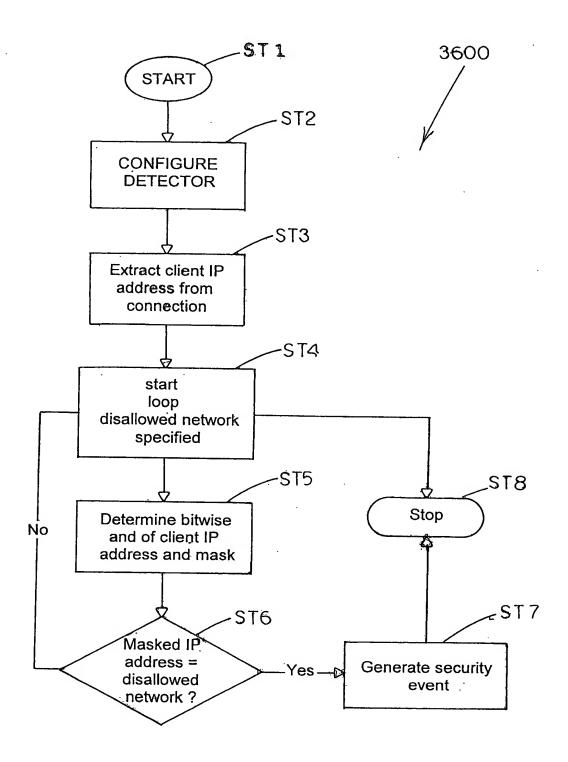


Fig · 36

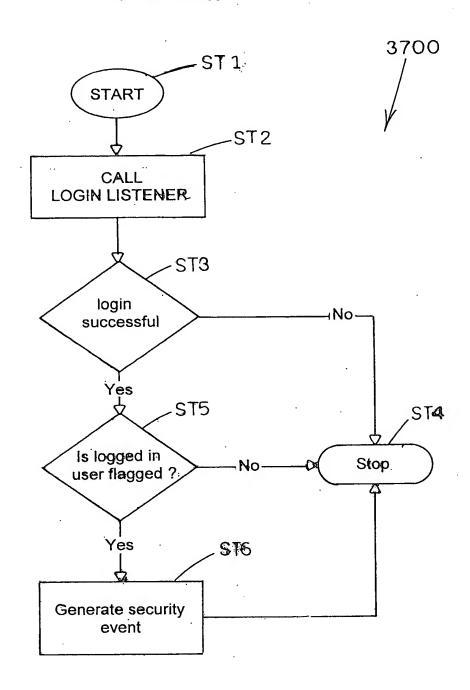


Fig · 37

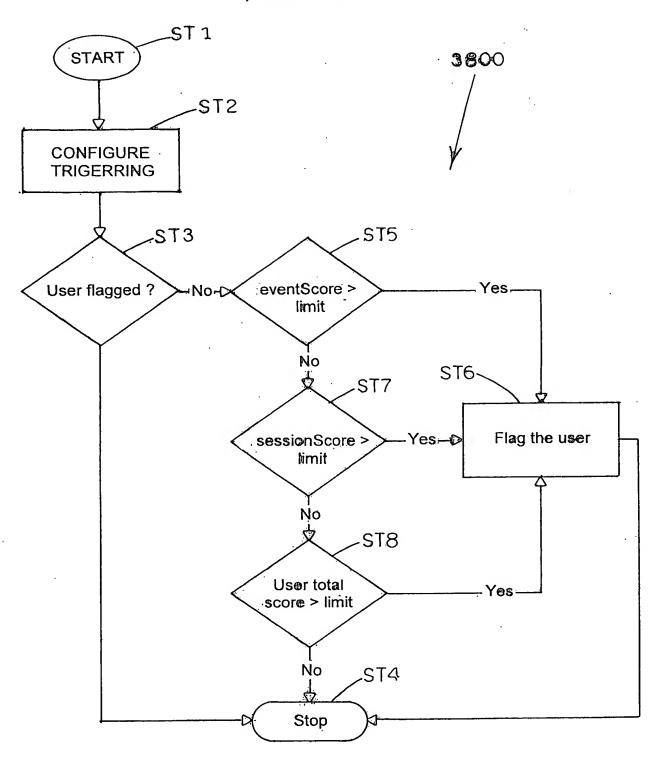
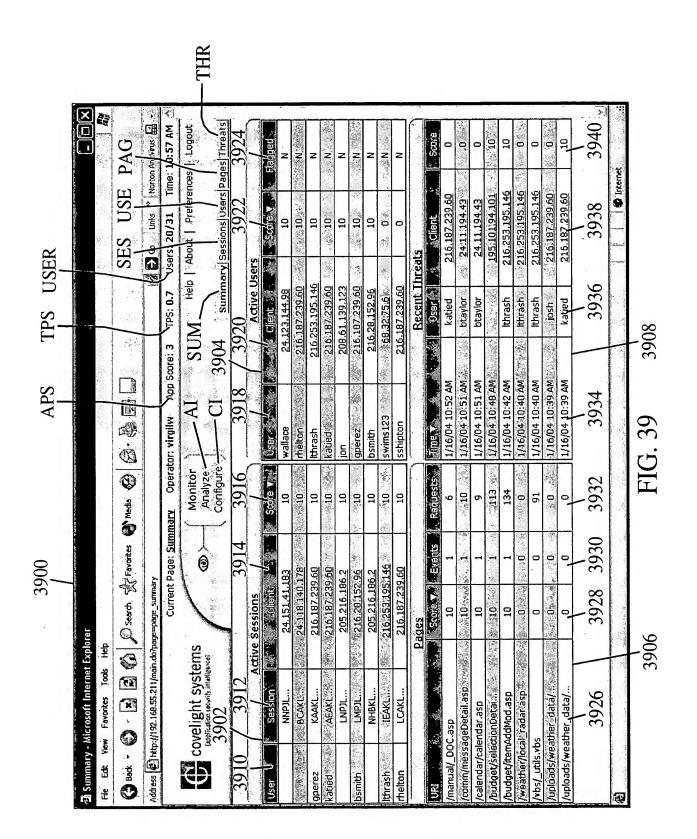


Fig · 38

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION



Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

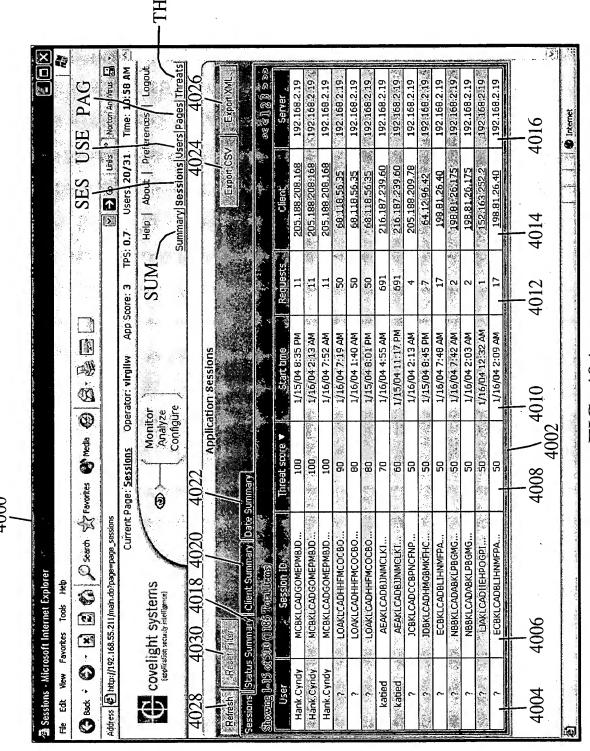


FIG. 40A

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION

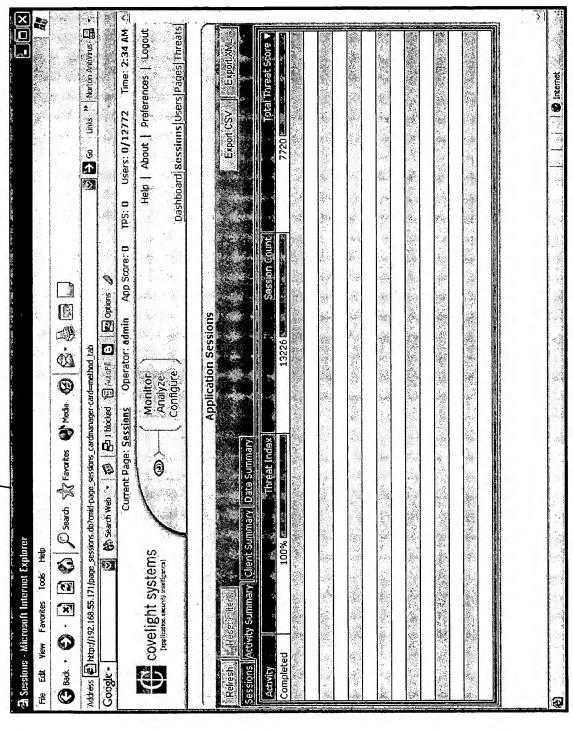


FIG 40B

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION

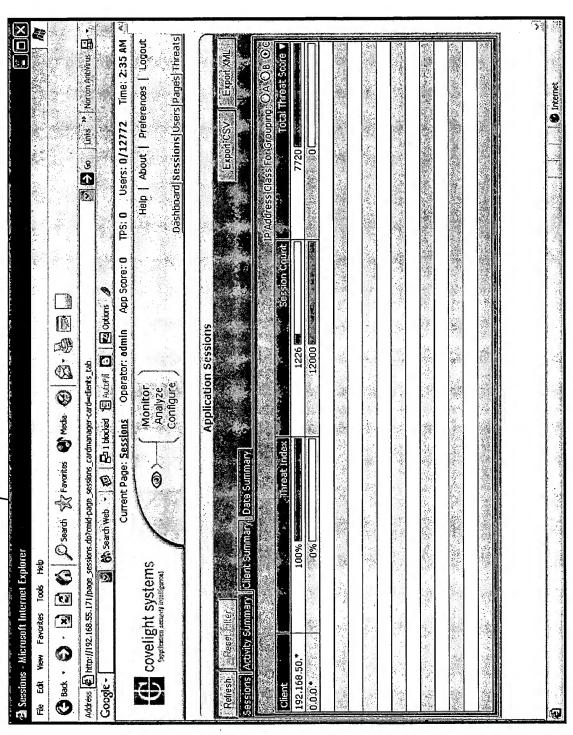
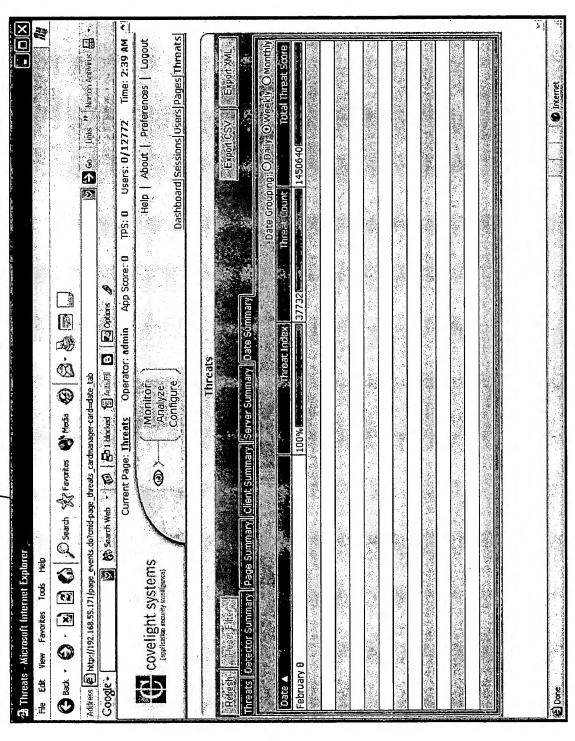


FIG. 40C

APPLICATION



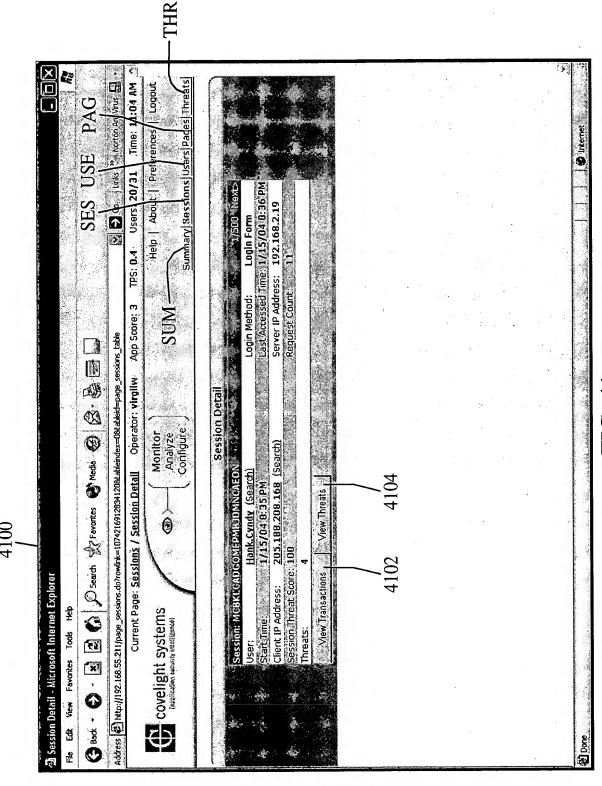
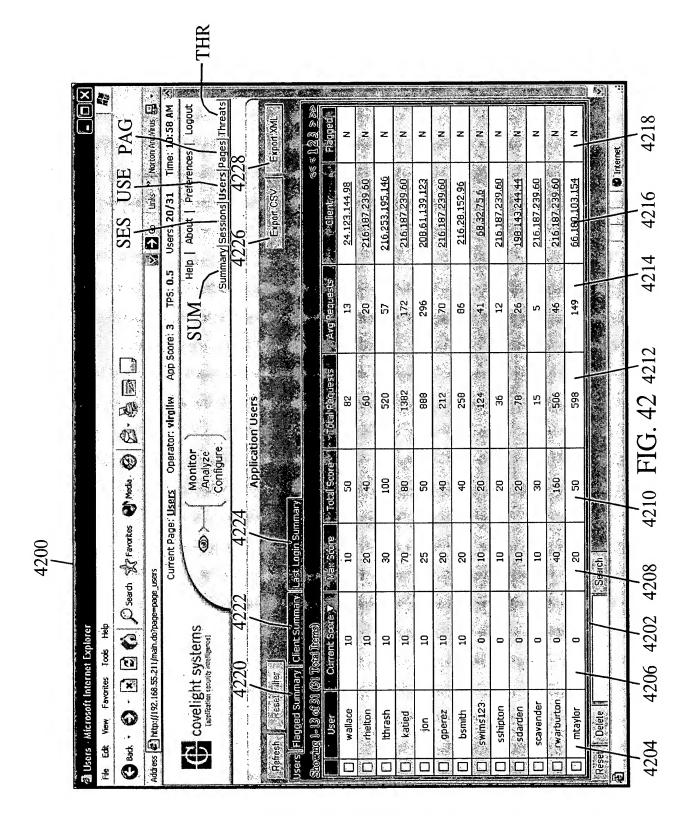
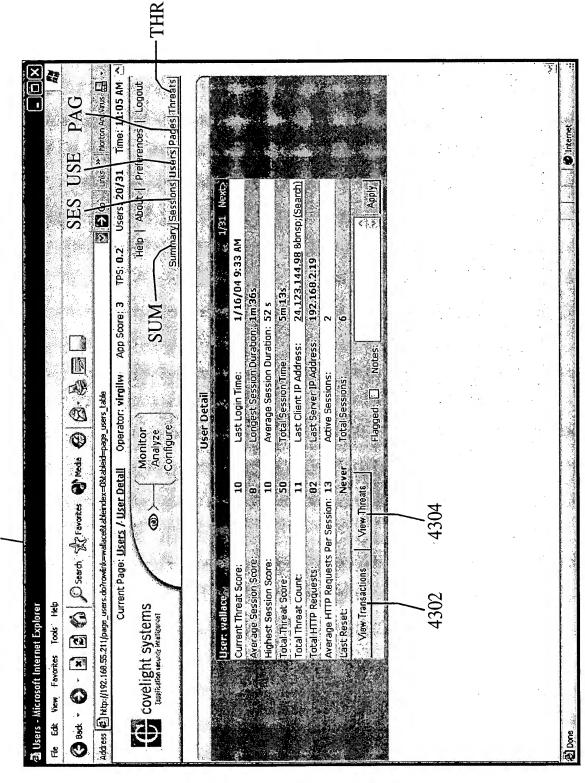
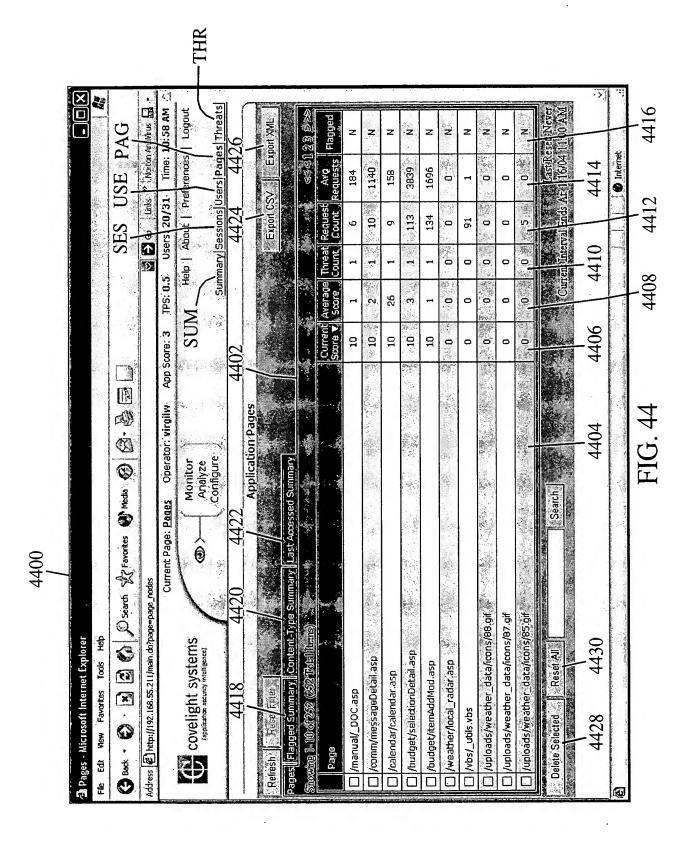


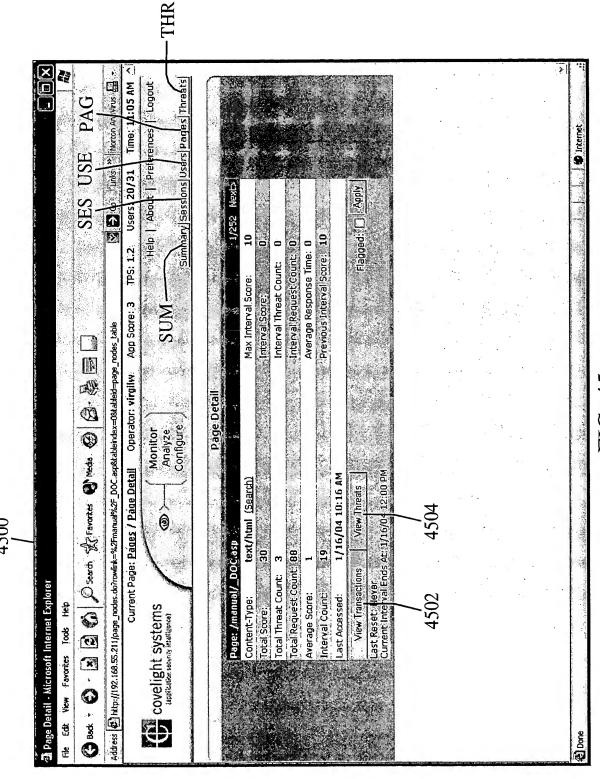
FIG. 41

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION









Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

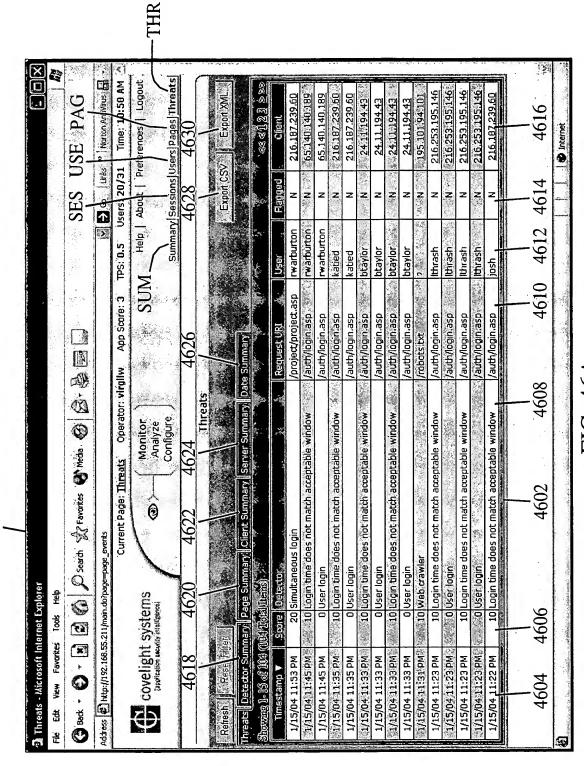


FIG. 46A

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION

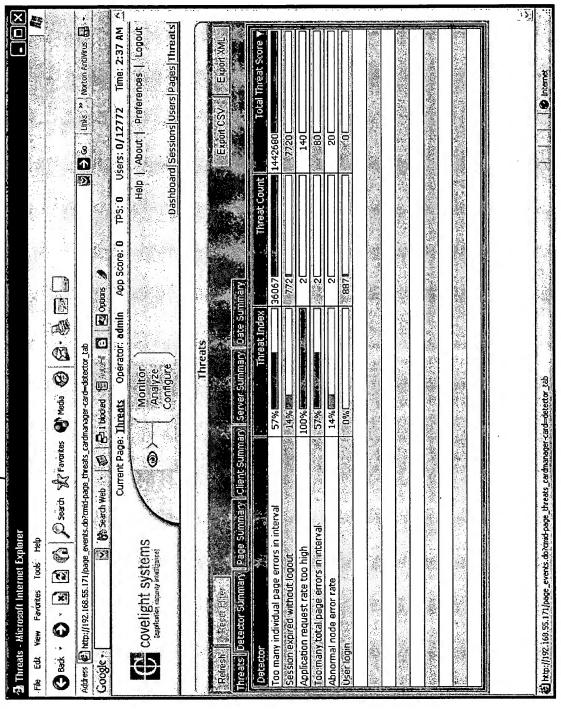
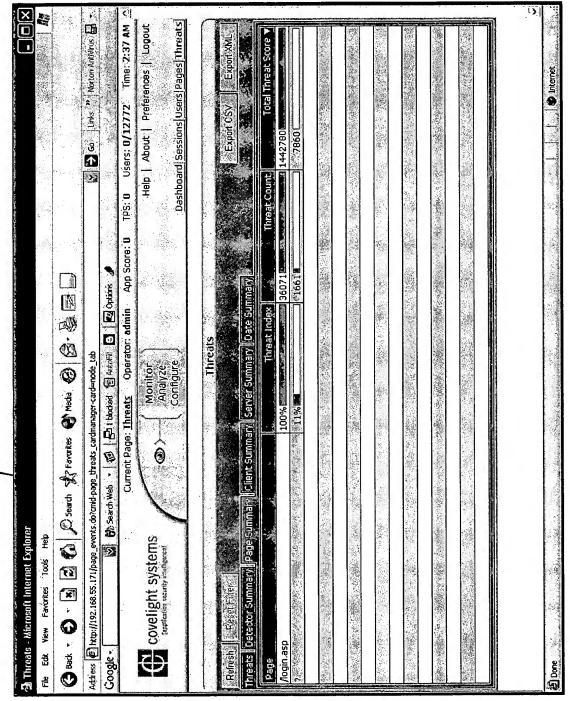


FIG. 46B

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION



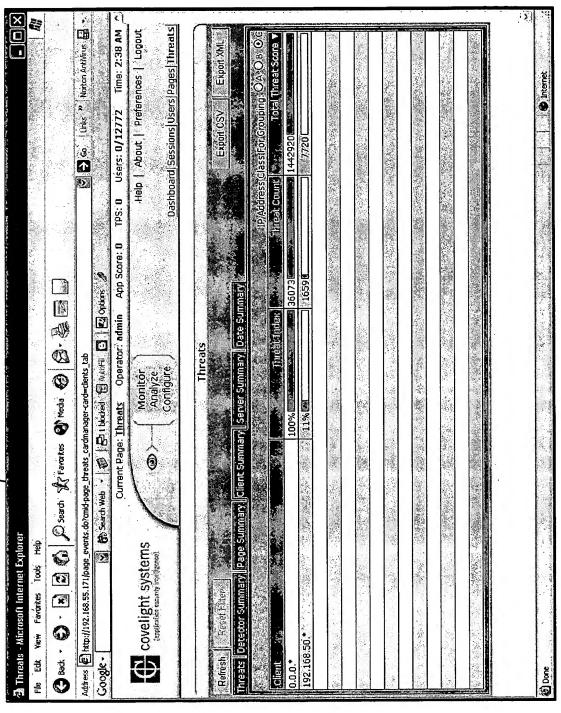
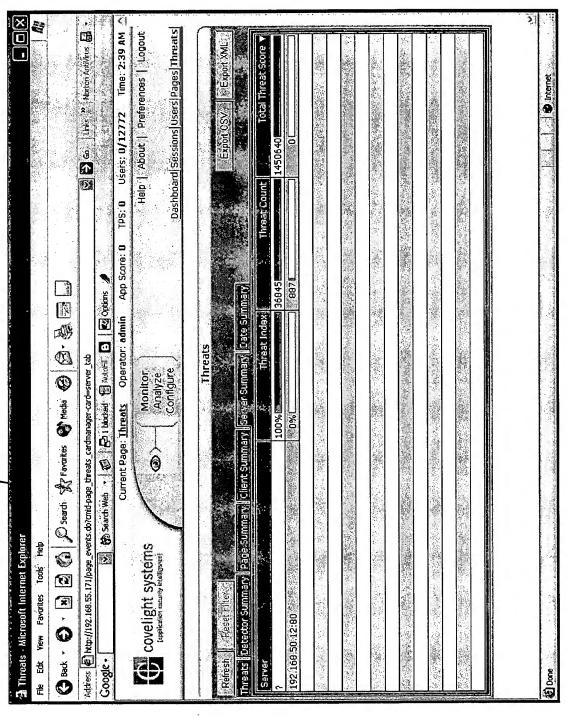


FIG. 46T

REPLACEMENT SHEET
Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR MONITORING

PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9



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FIG. 46E

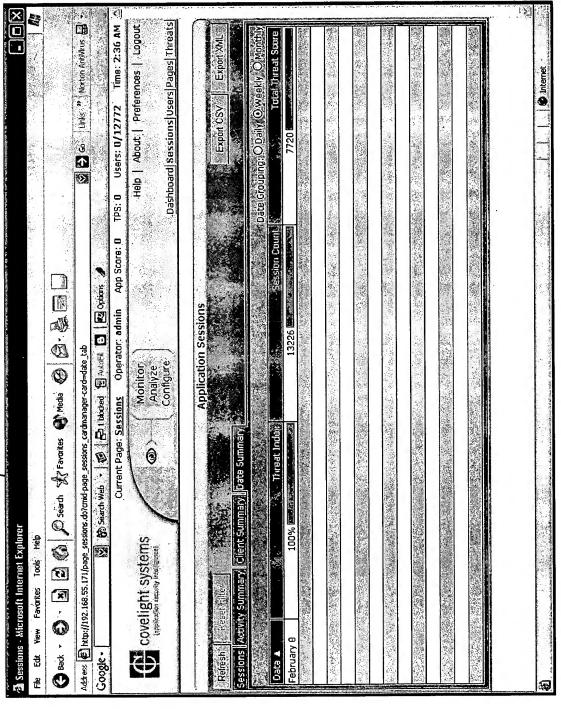
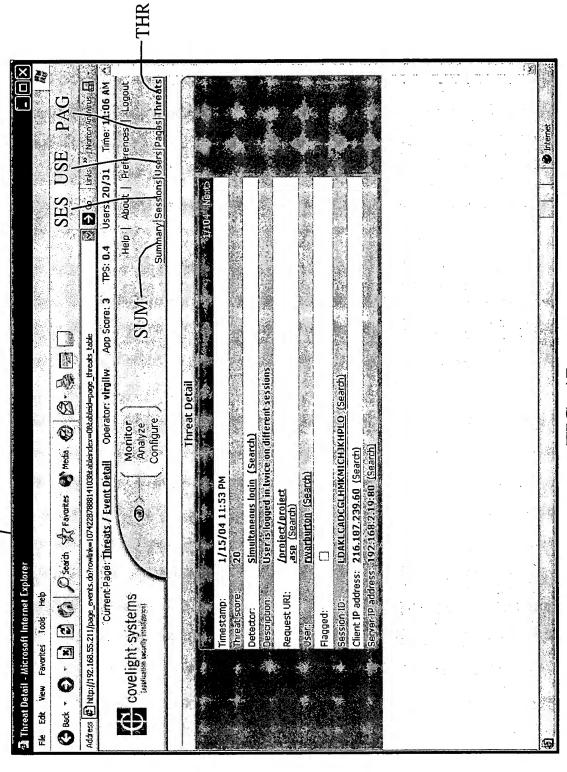


FIG. 46F



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Favorites Tools Heb	Address A http://192.168.55.211/main.do?page=page_bxrs		Covelight systems and control medicated	4822	्रा होत्या विद्यास्य स्थापना स स्थापना स्थापना स्थापन	Transactions Method Summary Clier	9028,T	RI		/images/addloc.gif	/images/additem.gif	/images/selectsum.gif	/images/rt_tabnotch.gif	GET 🐃 //mages//t_tabnotch.gif	/images/s.gif	st:nuaw/st/	/vbs/_utils.vbs	/jś/modal js	/js/util.js	/js/_const.js	/indude/builder_styles/_st	ddmod.as	/budget/selectionDetail.asp	
File Edit View	ess (2) http		6		Refresh	ins: wions	1-1 Enime	Method URI	GET /	GET* /in		GET:	GET /in	ET //r	GET //in	GET: //js	GET /v	GET //	GET //js	GET //js	GET //r	GET /b		

REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION

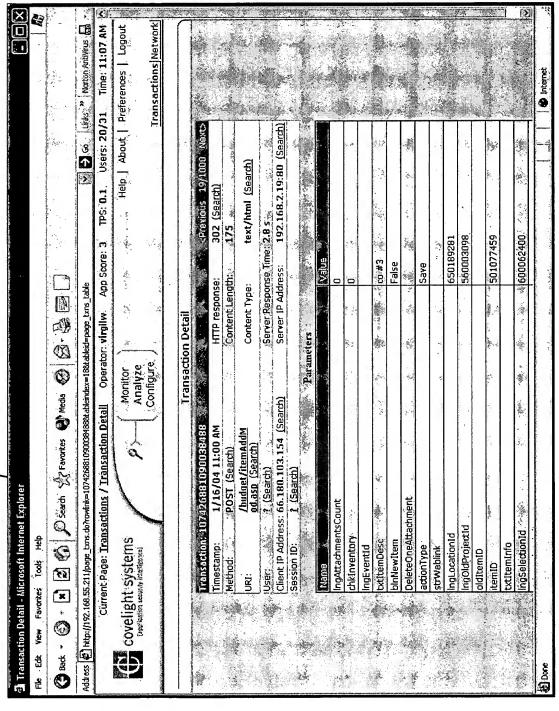


FIG. 49

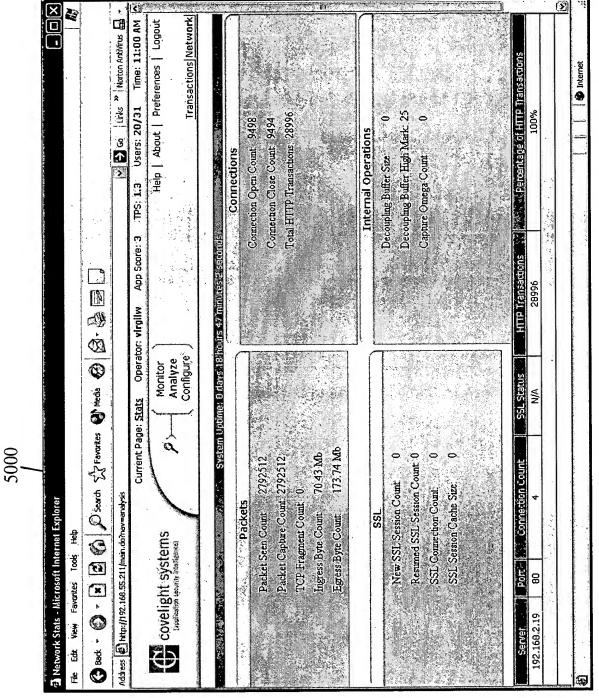
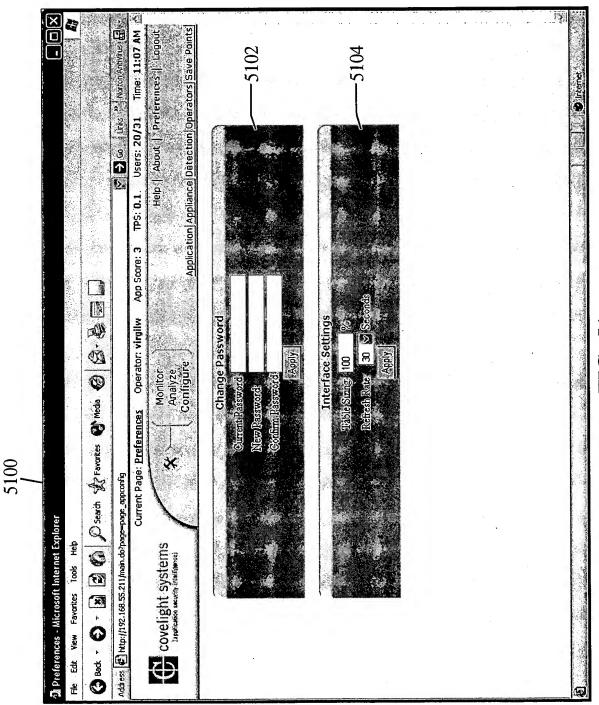


FIG. 50



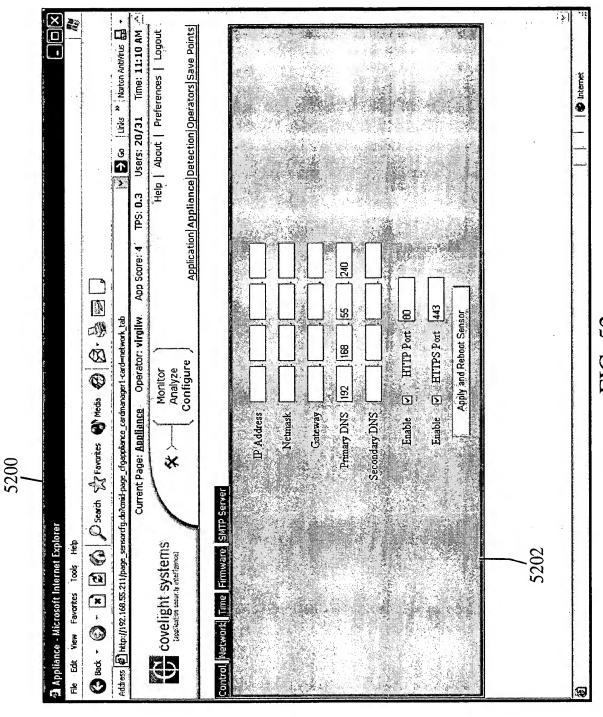


FIG. 52

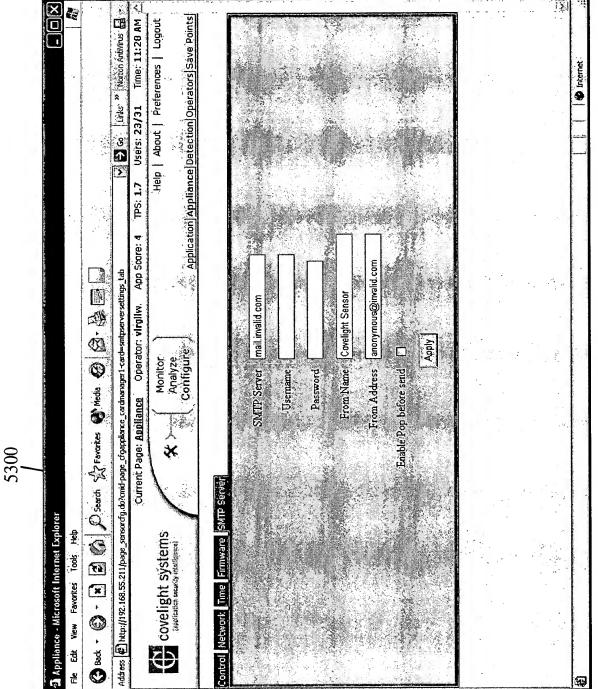
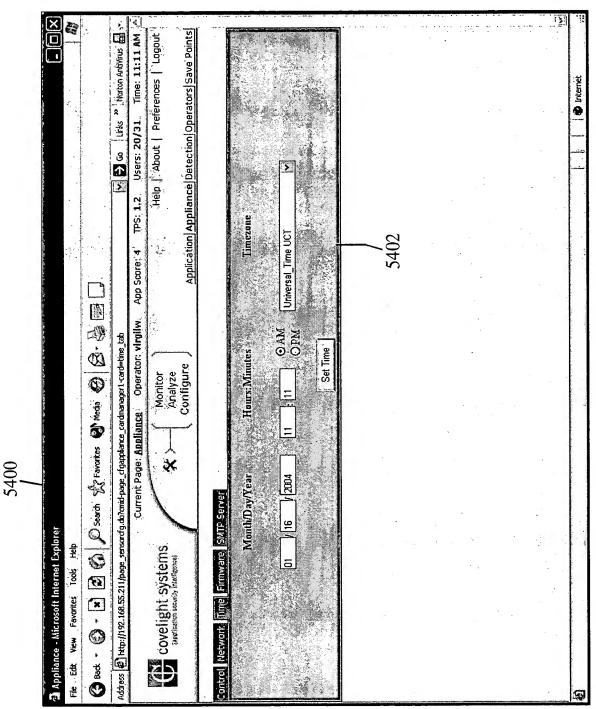
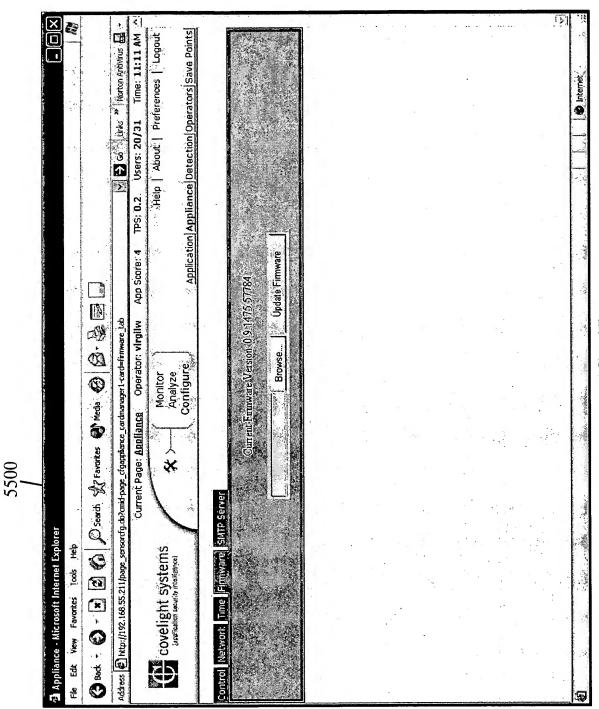
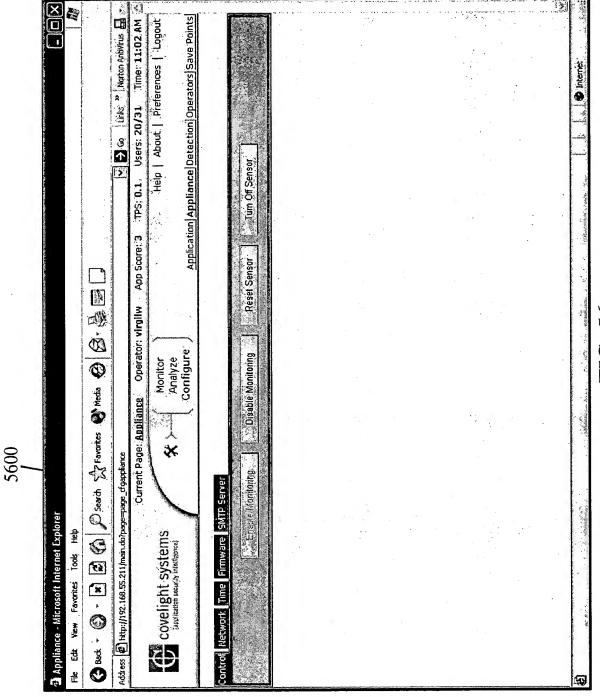


FIG. 53







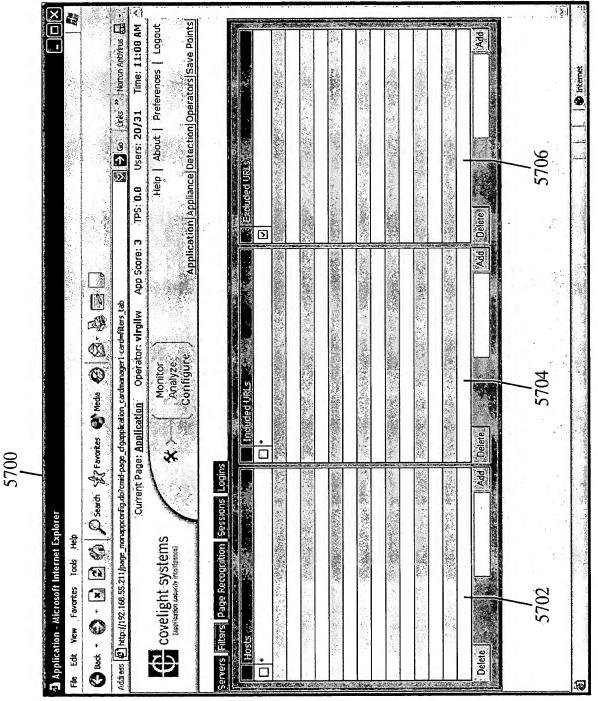


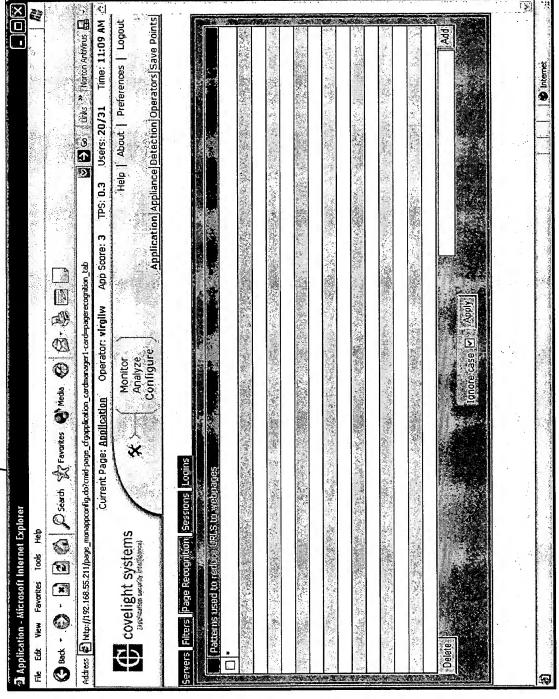
FIG. 57

REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

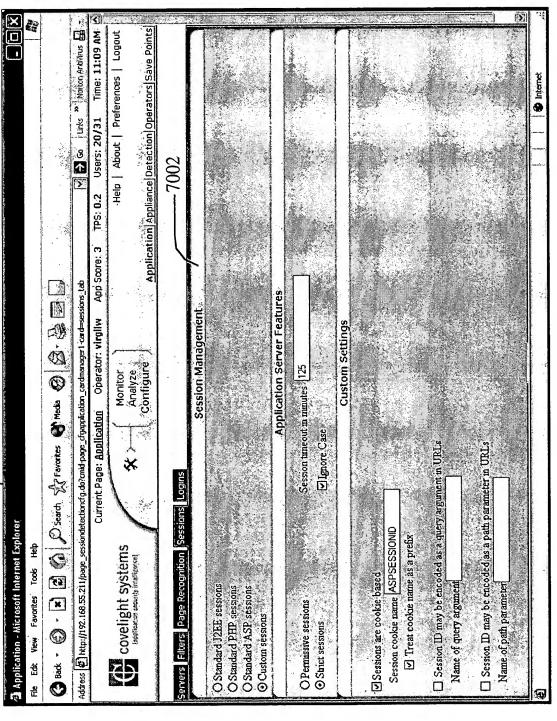
APPLICATION

Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9



5800

APPLICATION
Applicant(s): Motsinger et al.
Atty. Docket No.: 1503/9



5900

REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER **APPLICATION**

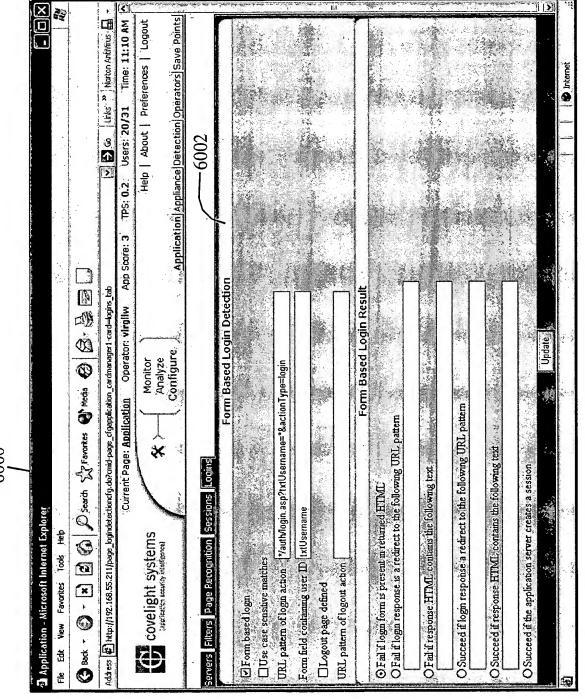
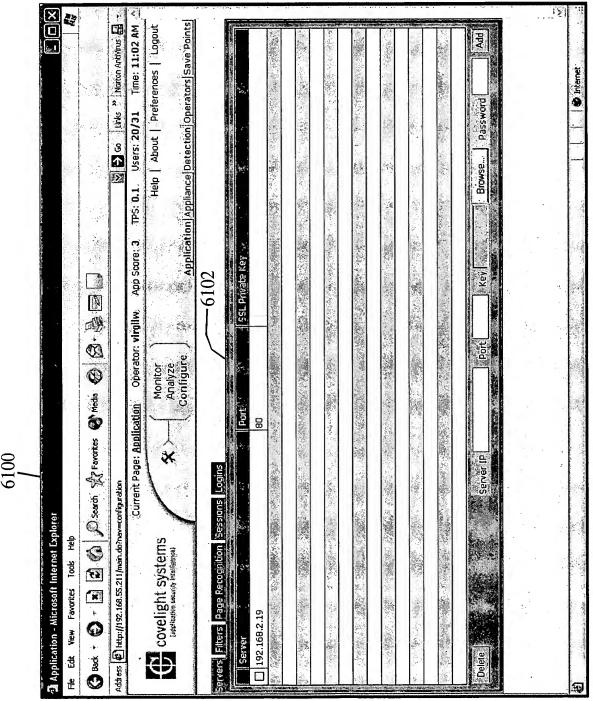
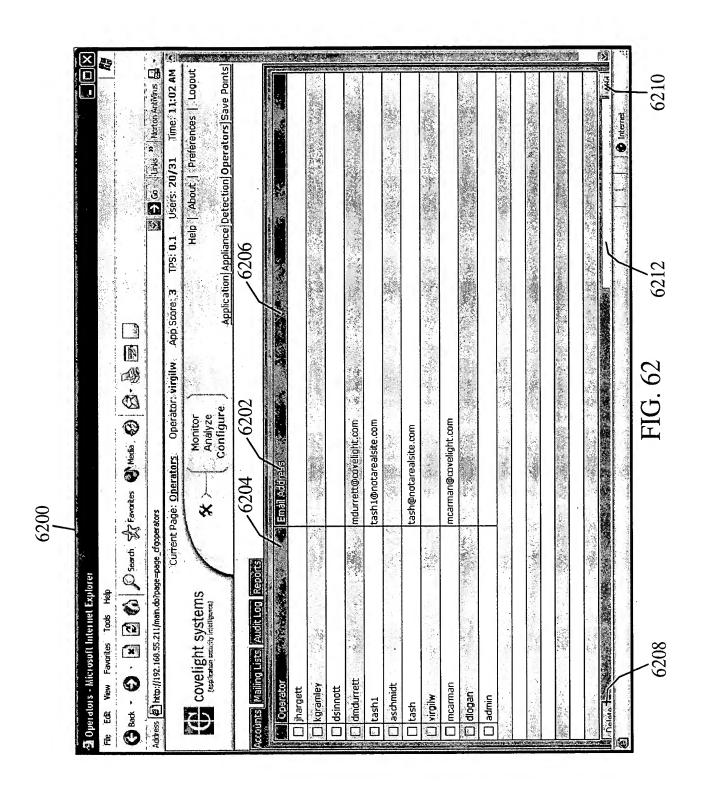
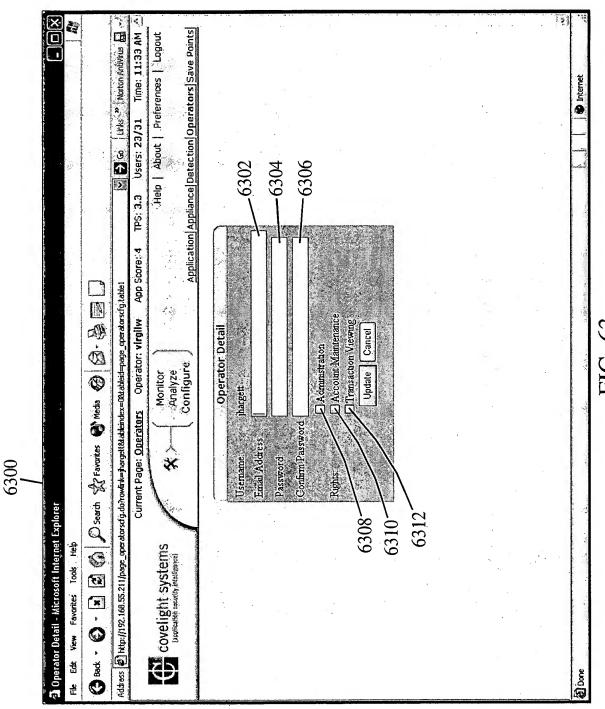


FIG. 60





APPLICATION



REPLACEMENT SHEET

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER

APPLICATION

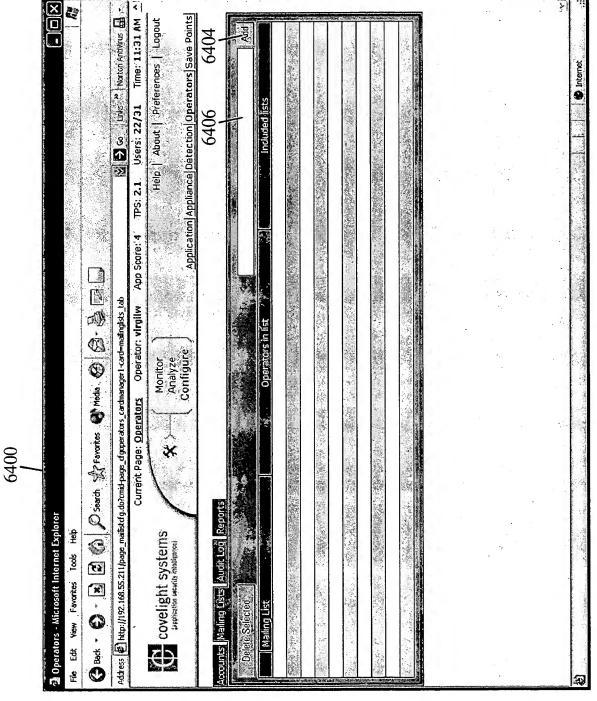
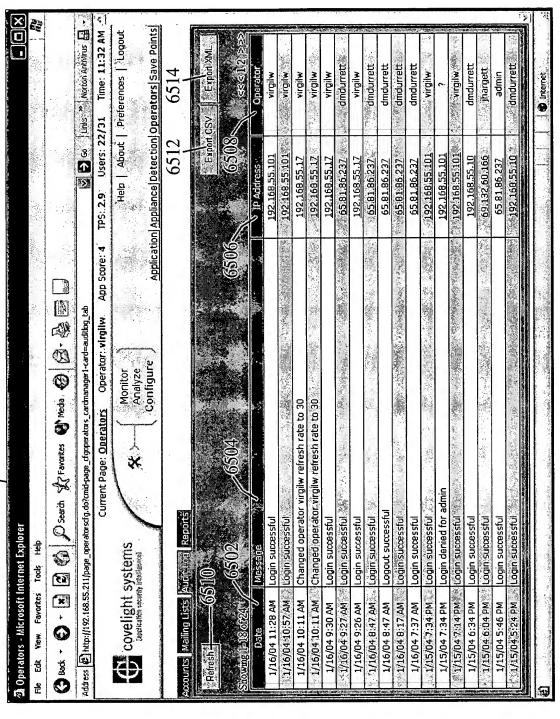


FIG. 64

APPLICATION

Applicant(s): Motsinger et al. Atty. Docket No.: 1503/9



9

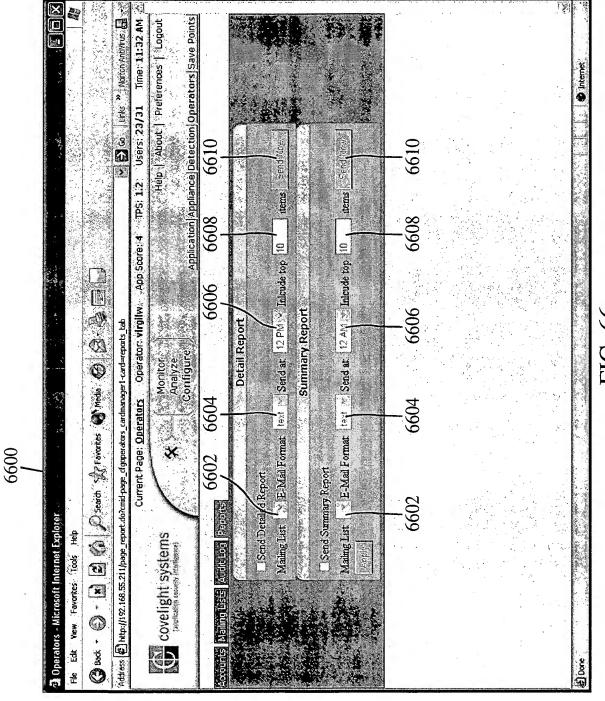


FIG. 66

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	***	Category ::	4,3	·	Store	Status
Abnormal node error rate		Application Errors			.10	Working
Abnormal session duration		Application Misuse,			10	Leaming
Abnormal user session duration		Application Misuse			10	Working
Application request rate too high		Usage Policy			70	Working
Consecutive login failures		Authentication			30	Working
Disallowed IP address		Access Policy			10	· Disabled
Encoded 8-bit character		URL Encoding			5	Working
Excessive individual HTTP errors		HTIP Protocol			40;	Working
Excessive login failures		Authentication			10	Learning
Excessive total/HTP errors		HTTP: Protocol			40	Working
Flagged user login		Access Policy			20	Working
HTIP buffer overflow		HTTP: Protocol			80	Working
HTTP parsing error		HTTP Protocol			90	Working
Invalid % character		URL Encoding			20	Working
Invalid HTTP request		HTTP Protocol			80	Working
Invalid URL encoding		URL Encoding			. 30	Working
Invalid UTF-8 sequence		URL Encoding			20	Working
Invalid use of %%		URL Encoding		27	091	Working
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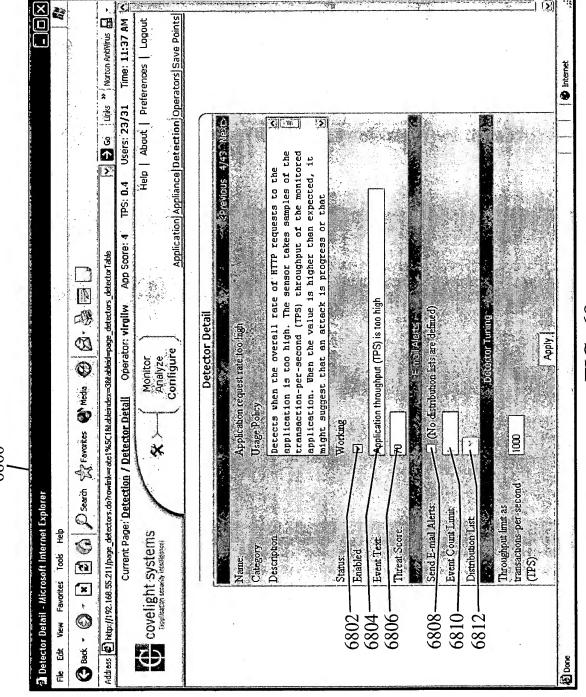
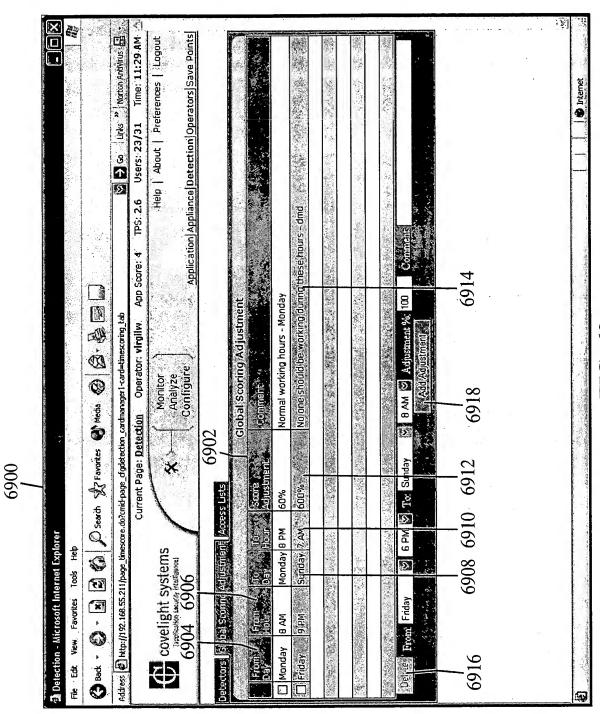
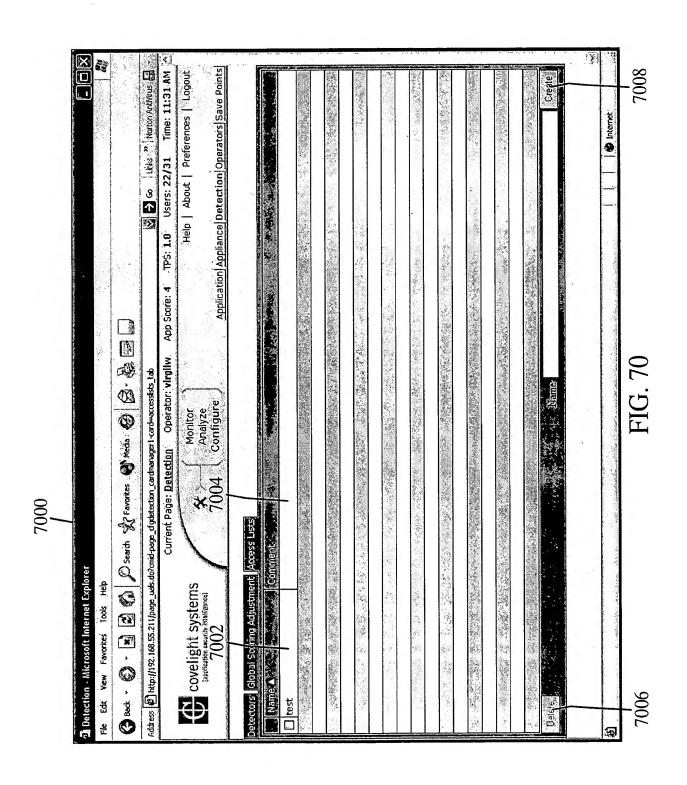
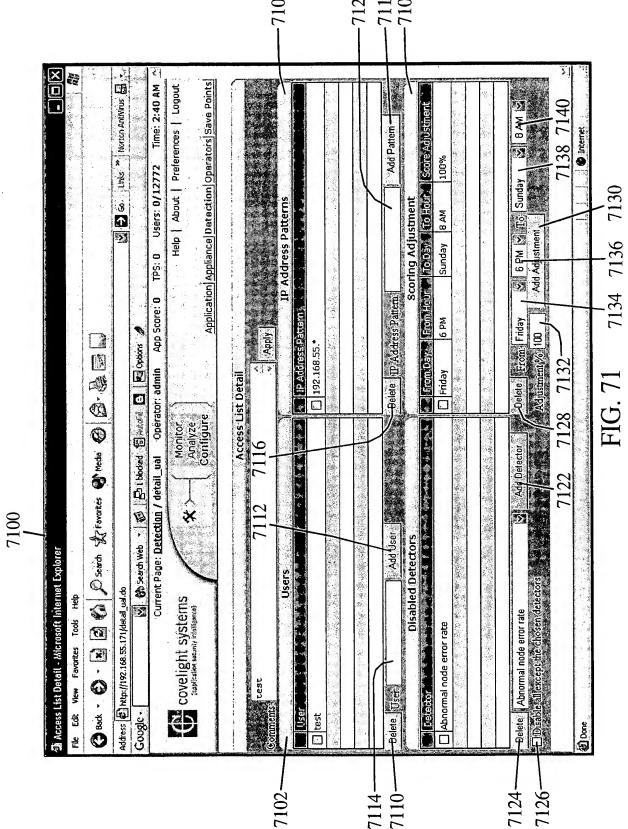


FIG. 68







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